

```

1 TCCAGTTTAA GTGTGGGAT TCCAAAGGAA ACACACAAAC CTCACGAAAG
51 SAAGGAACCA AGCAAGCAAG SAAGGAACGT CAGGAGGAAA AGAATAGGTA
101 SAACAGCGAG AAGAAATAAG GGAAGAGGAG GGAACACCA AATCTATGAT
151 TGGAGGTGGG CTCTTTTTTC GCGAATGCAA AAAGGAATAT GCAGACATT
201 TTGGGTTTCT TCTGCAGGAG TTTCCTAGGC GCGGTAGIAG GTCCCAATTT
251 CTTCAACAAT ATCCAGATCG GGGGATTATT TCCAAAGCAG CACTACAGG
301 AACATGCTTC TTTAGATTG GTTTGCTGCG AATTCAAGA GCTCCGGAAG
351 CTGCTTCCCG ASATTSATAT TGTGAACATC AGCGACAGCT TTGAGATGAC
401 CTATAGATTC TGTCCTCAGT TCTCCAAAGG ACTCTATGCG ATCTTTGGGT
451 TTATGAAAGC TACCACTGTC AACATGCTGA CTTCTTTTTC TGGGGTCTTC
501 CAGTCTGCTT TCATTAGGCG GAGCTTTTTC GTTATACAT CCAATTCAGTT
551 TCTCTTTCAG CTGCGCTCTG AATTGCAAGA TCGCGTATC AGTATCATCG
601 ACCATTACAA GTGGCAGAAA TTTGTCTACA TTTATGATGC CGACCGGGGC
651 TCTATCTCTC TCGAGAAAGT CCGTGAACCA GCTCTGAGA AGAATCTGCA
701 GGTGACAGCA GTCAATATTT TGAACAACAC AGAGGAGGGA TACCGGATGC
751 CTTCTCAAGA CTGGGAGAGG AAAAAAGAGG GCGTGTGGT GGTGACGCT
801 GAATCAAGAC GCTCAATGC TATCTTGGGC CAGATATATA AGCTAGAGAA
851 GAATGCTATC GGTACCACT ACATTCTTGC AAACTGSGGC TTCTATGACA
901 TCGAATTAAG CAAATTCAGG GAGAGTGGCG CCAATCTGA AGGTTTCCAG
951 CTGGTGAATC ACACAGACAC TATTCGGGTC AAGATCATGC AGCAGTGGAA
1001 GAATGCTGAT GCTGGAGAGC ACACACGGGT GGAATGGAAG AGACCCAAAT
1051 AATGCTCTTC GCTCACTTAC GATGGGCTGA AGGTGATGCG TGAGGCTTTC
1101 CAGAGCTTTC GGAAGCAGAG AATTGATATA TCTCGCTGGG GGAATGCTGG
1151 GATTCCTCTG GCTAAACAGC CTCTTCTCTG GGGCAAGGG ATGACACAC
1201 AGAGAGCTCT GAGCAGGTC CGATTGGAAG GTTTAACAGG AAACGTGAG
1251 TTTAATGAGA AAGGAGCGCG GACCAATAC ACCTCAGC TGATTGAAAT
1301 GAAGACAGCA GGCATCCGAA AGATTGCTTA CTGGAATGAA GATGATAAGT
1351 TCTCTCTGTC AGTCAACGAT GCGCAAGCTG GCGGGGATAA TTCAAGTCTT
1401 CAGAACAGAA CATACATCGT CACAACAATC CTAGAAGATC CTATGCTAT
1451 GCTCAAGAG AAGAGCAATC AGTTTGAGGG CAATGACGCT TACGAGGGCT
1501 ACTGCTGAGA GCTGGCGGCA GAGATTGCCA AGCAGCTGGT CTACTCTTAC
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1601 GAAGGCTTGG AATGGCATGG TGGGAGAGCT GGTCTATGGA GTAAGTTTAC
1651 GCGAGGCTGC GAAATTAGAG GCGGAGGCA GAGGCTTGA CAGGAAATTA
1701 TTGCTGCTGT GGTGGGCGCT GCTCAAGAT GTCTATGAAA CCGTGTAAAT
1751 GAGTGTGCTT GCTGCTGAAC AGATGAGTAA TCCAAATCG AATTTCTTAA
1801 GAATGCTTTC GTTCAGGTTA CTGCTGAGAG GTCCTTAAAT CCGACTCAGA
1851 GTCTGTGAGC GTCAATTGAT TGTCTGCAA CACAGGTGAC AGCATAGCTC
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1951 TTCTGCTTTC CTGAGTATCA GTTCTCTCTG TGATATTAAG TGCATCTTAA
2001 GCGAACTTAA CTTTCTAGTT ACTTGGCTCT CTAGTTTCTT GCTCTCTTAT
2051 GAATTTGCA ATTCACTCAA ATGCGCTTAA ATTACTTCTT TCCCTAGAGT
2101 GCTCTCTTTC ACTCTCAGC CTTAAGATAC TACTCTTCTA AAACCTATAT
2151 CAAATTAATC TTTTTCAGG GTGTGTTTTT TTCTTCTTTC TCATAATAGG
2201 TATGAATGTC CTTTTTAAT GTTTCTGCTT TCCCTATAG AATTTAGTTG
2251 CTGCTTTTTT TTAATGCTTT ACCCTGCTTT ATATAAGGT TACCTGTGTA
2301 ACAGGGGTAG GACTATTCTA TCTTTATAGT GCTCACCACA CTTGAAATAA
2351 CTGATGCAAC AATTGCTATA AAATCTTCAA TAAATTACAG CAGTTTTGAA
2401 AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA AAAA

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(SEQ ID NO: 1)

# FEATURES:

5'UTR: 1 - 188  
Start Codon: 184  
Stop Codon: 1746  
3'UTR: 1749

Top BLAST Hits:

Score	E
(bits)	Value

CFA 18 000 04891320	altid=gi 106114	/def=pir  A41273 glutamate ...	998	0.0
CFA 18 000 04924128	altid=gi 183281	/def=gb AA58613.1  (M64752...	998	0.0
CFA 18 000 04904030	altid=gi 478699	/def=pir  S25852 glutamate ...	996	0.0
CFA 18 000 04891322	altid=gi 4504113	/def=ref NP_000818.1  glut...	996	0.0
CFA 18 000 04904031	altid=gi 481504	/def=pir  S38723 glutamate ...	990	0.0
CFA 18 000 04938820	altid=gi 6680087	/def=ref NP_032191.1  glut...	984	0.0
CFA 18 000 0497647	altid=gi 227246	/def=prf  1617121A Glu rece...	984	0.0
CRA 13 000 05162807	altid=gi 3402257	/def=emb CAA35050.1  (X171...	982	0.0
CRA 13 000 04967543	altid=gi 279674	/def=pir  ACPTK1 glutamate ...	979	0.0
CRA 13 000 04956319	altid=gi 202868	/def=gb AA561479.1  (M38060...	979	0.0

Score	E
(bits)	Value

1023	0.0
590	0.0
373	e-100

gi|11445102 placenta  
gi|8061803 /nervous  
gi|12066444 brain

Tissue Expression:  
hippocampus

1 MCHFAFFET GELGAVVGSN FPNNIQIGGL FPNQSQEHA AFRFALSOLT  
 51 EIPKLLPQID IVNIDDFEM TYRFSQFSK GYVAIFGFEY PRTVNMLTSE  
 101 CGALHVCFIT ESEFVITSNQ FVLQLRPELQ DALISIIDHY FWQKFVYIYD  
 151 ADFGLSVLQK VLLIAAEKNW QVTAVNLTIT TEEGYRMLFQ DLEKKKERLV  
 201 VVCESERLM AILQVKKLE KNGIGYHYIL ANLGFMIDIL NKFESGANV  
 251 TGFQLVNYTD TIFAHINQW ENSEARDHTR VDWKRPKYTS ALTYDGVKVM  
 301 AEAQSLPRK FIDIAFFGHA GQCLANPAVP WGQGIDIQRA LQQVRFEGLT  
 351 SNVGFNEKSF FTDGTHVIE MKHGSIRKIG YWNEDDKFVP AATDAQAGGD  
 401 NSSTQNRIH TTTILAPVV MLKKNANQFE GNDRYEGYCV ELAAEIAKHV  
 451 GYWRLEIYA LGFTGARDTD KRAWNGMVGE LVYGVSSLQG GKLEGGGRSF  
 501 DRYSEGGWVA LPTLVYETL  
 (SEQ ID NO: 2)

#### FEATURES:

##### Functional domains and key regions:

[1] P0000001 P000001 ASN\_GLYCOSYLATION  
N-glycosylation site

Number of matches: 6

1 42-46 NISL  
 2 249-252 NVTG  
 3 25-26 NIT  
 4 363-367 NITL  
 5 401-404 NSSV  
 6 406-409 NRTV

[2] P0000005 P000005 PKC\_PHOSPHO\_SITE  
Protein kinase C phosphorylation site

Number of matches: 5

1 71-73 TYF  
 2 206-208 SYF  
 3 306-308 YLF  
 4 315-317 SYF  
 5 453-455 SYF

[3] P0000006 P000006 CK2\_PHOSPHO\_SITE  
Casein kinase II phosphorylation site

Number of matches: 6

1 131-133 TIE  
 2 161-163 TAAE  
 3 179-182 TITE  
 4 180-183 TIEE  
 5 279-282 TFEV  
 6 413-416 TIEE

[4] P0000008 P000008 MYEISTYL  
N-myristoylation site

Number of matches: 7

1 14-16 SAVVGA  
 2 21-24 GIEFNIQ  
 3 247-251 GANVTG  
 4 448-451 GITHNV  
 5 503-507 GGDHSS  
 6 445-448 GIGSEF  
 7 506-511 GHWVAL

[5] P0000009 P000009 AMIDATION  
Amidation site

358-361 EGKE

##### Membrane spanning structure and domains:

Helix	Begin	End	Score	Certainty
1	1	7	1.803	Certain
2	55	111	1.636	Certain

# BLAST Alignment to Top Hit:

>CRA18000004891320 /altid=gil106114 /def=pir||A41273 glutamate  
receptor precursor - human (fragment) /org=human  
/taxon=9606 /data=et=nr /length=896  
Length = 896

Score = 998 bits (6.53), Expect = 0.0  
Identities = 484/484 (100%), Positives = 484/484 (100%)  
Frame = +3

Query: 189 MQHIFAFFCTSELGAVWGANEFPNNIQIGSLFPNQSQEHAAPFALSQLTEPPKLLPQID 368  
MQHIFAFFCTSELGAVWGANEFPNNIQIGSLFPNQSQEHAAPFALSQLTEPPKLLPQID  
Sbjct: 1 MQHIFAFFCTSELGAVWGANEFPNNIQIGSLFPNQSQEHAAPFALSQLTEPPKLLPQID 60

Query: 369 IVNIDSSEFEMTYFPCQFSGVYAIFFGYEFTVNMILTSFGALHVCFITPSFPVLTANQ 548  
IVNIDSSEFEMTYFPCQFSGVYAIFFGYEFTVNMILTSFGALHVCFITPSFPVLTANQ  
Sbjct: 61 IVNIDSSEFEMTYFPCQFSGVYAIFFGYEFTVNMILTSFGALHVCFITPSFPVLTANQ 120

Query: 549 FVLQLRPELDQDALISIIHXYWQFVYIYDAIFSLSVLQFVLDTAAEFNWQVTAVNILIT 728  
FVLQLRPELDQDALISIIHXYWQFVYIYDAIFSLSVLQFVLDTAAEFNWQVTAVNILIT  
Sbjct: 121 FVLQLRPELDQDALISIIHXYWQFVYIYDAIFSLSVLQFVLDTAAEFNWQVTAVNILIT 180

Query: 729 TEEGYRMIFQDLEFFKFLVVDCESEFLNAILGQIIFLEFNGIGYHYILANLSPMFIQL 908  
TEEGYRMIFQDLEFFKFLVVDCESEFLNAILGQIIFLEFNGIGYHYILANLSPMFIQL  
Sbjct: 131 TEEGYRMIFQDLEFFKFLVVDCESEFLNAILGQIIFLEFNGIGYHYILANLSPMFIQL 240

Query: 909 NFFPESGANVTGFQLVNTDTIPAKIMQWENSDAEDHTFVDWFFPKYTSALTYDGVFVM 1088  
NFFPESGANVTGFQLVNTDTIPAKIMQWENSDAEDHTFVDWFFPKYTSALTYDGVFVM  
Sbjct: 241 NFFPESGANVTGFQLVNTDTIPAKIMQWENSDAEDHTFVDWFFPKYTSALTYDGVFVM 300

Query: 1089 AEAQSLIFQFIDISRFENAGDCLANEAVPWQGGIDIQFALQQVFESLTSNVQFNEFGR 1268  
AEAQSLIFQFIDISRFENAGDCLANEAVPWQGGIDIQFALQQVFESLTSNVQFNEFGR  
Sbjct: 361 AEAQSLIFQFIDISRFENAGDCLANEAVPWQGGIDIQFALQQVFESLTSNVQFNEFGR 360

Query: 1269 EPNYTLHVIEHFHDSIFPIGYWNEEDFFVFAATDAAGGDNSSVQNFYIVTTILEPPYV 1448  
EPNYTLHVIEHFHDSIFPIGYWNEEDFFVFAATDAAGGDNSSVQNFYIVTTILEPPYV  
Sbjct: 361 EPNYTLHVIEHFHDSIFPIGYWNEEDFFVFAATDAAGGDNSSVQNFYIVTTILEPPYV 420

Query: 1449 MLFKNANLFEHDPFELGYVELAAEIAFHVGYGYLEIVSDGKYGAFDPDTKAWNEMVSE 1628  
MLFKNANLFEHDPFELGYVELAAEIAFHVGYGYLEIVSDGKYGAFDPDTKAWNEMVSE  
Sbjct: 421 MLFKNANLFEHDPFELGYVELAAEIAFHVGYGYLEIVSDGKYGAFDPDTKAWNEMVSE 480

Query: 1629 LVYS 1-40  
LVYS  
Sbjct: 481 LVYS 4-4 (SEQ ID NO : 4)

## Hmmer search results (Pfam):

Scores for sequence family classification (score includes all domains):

Model	Description	Score	E-value	N
CE00269	CE00269 kainate_receptor	646.8	1.1e-190	1
PF01094	Receptor family ligand binding region	101.4	1.4e-27	1
CE00294	CE00294 glutamate_receptor_6	47.5	5.9e-14	1

Parsed for domains:

Model	Domain	seq-f	seq-t	hmm-f	hmm-t	score	E-value
PF01094	1 1	55	331 ..	55	464 ..	101.4	1.4e-27
CE00294	1 1	347	471 ..	376	507 ..	47.5	5.9e-14
CE00269	1/1	21	484 ..	42	544 ..	646.8	1.1e-190



1 TTCAAAATAS TAA ATACAA AACTTAAAA TGGAGAAATT AAAAGATGGA  
51 ATTATTAAT CAGAAATCT TAATTTTTC AGAGAGTTTA SAATGATCT  
101 TTCTTATTT TGTG TGTAA TTTTATAT CAGATGTTTA TTCTTCTTT  
151 AGAATTTTC TATTAATCT TGTCTTAT TAGAGCTTAA GAGTTAAAG  
201 CTGATTTT APTATTAAT TTATTTCT TAAATGGA ATCTCTTT A  
251 TTATTAATGA AAAATTTT TAAATTTT GAATTTCT TCTTATTTA  
301 TAAATTTT ATTAATTA CTATTAAT ATTATAAAA TAAAGATTT  
351 AGGTGATTT CTATTAAT TATTTCTT ATTATAATA STAAATTAAT  
401 ATTATTTT AAAATTTT TATTAATTA ATTATATAT STAAATTTT  
451 ATTAATTA AAAATTTT TATTAATTA ATTATATAT STAAATTTT  
501 TCTATTTT TATTAATTA TTTTATTA ATTTATTTT TTTTATTTT  
551 CATTATTT TATTAATTA ATTAATTTT TGGAGTAAAT GAATTTT  
601 TCTATTTT TATTAATTA TATTAATTA TAAATTTT TCTATTTT  
651 ATTATTTT TTTTATTA GAATTTT TCTATTTT TCTATTTT  
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1001 TCTATTTT GGTCTATTT AAGATATTT ATTAATTTT AGTTATTTT  
1051 AATTTATTT AATTTATTA AATTTATTA AATTTATTT AATTTATTT  
1101 TCTATTTT TCTATTTT TCTATTTT TCTATTTT TCTATTTT  
1151 GTCTTTTGA CTATTTT GAATTTT CTTTCTAT TCTATTTT  
1201 GGTCTATTT CATTATTT TTTTATTA AAGATATTT GATAATTTT  
1251 GATTAATTT TCTATTTT AGTTTATTT TCTATTTT TCTATTTT  
1301 AAAATTTT CATTATTT CATTATTT CATTATTT CATTATTT  
1351 TCTATTTT AAGATATTT AATTTATTT TTTTATTT TTTTATTT  
1401 CTGATTTT TTTTATTT CATTATTT GATTTATTT GATTTATTT  
1451 TCTATTTT GATTTATTT AATTTATTT AATTTATTT AATTTATTT  
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1551 GATTTATTT CATTATTT CATTATTT AATTTATTT CATTATTT  
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2201 TCTATTTT GATTTATTT AATTTATTT AATTTATTT AATTTATTT  
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3451 TCTATTTT GATTTATTT AATTTATTT AATTTATTT AATTTATTT  
3501 TCTATTTT GATTTATTT AATTTATTT AATTTATTT AATTTATTT

FIGURE 3, page 1 of 122

3551 AGTGGCATTG GASTAAATTG DTTTSTTTCT TGACACCTGT TAACCTACAT  
3601 CCTAAATGT GTADATATCT BTGTSTTAGT GCCTAACACG CAAAACCTC  
3651 TGCTTTAGG GAGAGACCTT CCGTTGTAGT CCAGGCGGTA GGTCTCTACT  
3701 CTTAAAGGTC CCAATTTTTC TCTTTTATT ATTGACAGG AGGAGAGAG  
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3801 ATAAACCAAG ATTTTCTTG TTTTCATCT TTAAGAGAG CATCTATTAC ATTTCTCTT  
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4101 ATTAAAGCAT TAAATCTAG AAAAAAATCT TGAAAAATCT ACTCTCTCTT  
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4201 ATTTATCTCT TCTTAAAAAG AGAGAGAGAG TCTACAGAGG GTTCTCTCTT  
4251 CATCTCTCTT GATCTCTCTT TACTCTCTTC TTGAGAGAG ACCTCTCTT  
4301 AAACATCTCT ATCTCTCTCT CTCTCTCTTC GGCTCTCTCT AATCTCTCTT  
4351 AATCTCTCTT ATCTCTCTCT TGAGAGAGAG TACAAAGCTA AGCTCTCTCT  
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4451 ACTAGAGAGT AATCTCTCTT TCTCTCTCTT ATCTCTCTTC TCTCTCTCT  
4501 TTGAAGCAGA AGCTCTCTCT ATCTCTCTCT ACAATCTCTT TCTCTCTCT  
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4601 AAACATCTCT TGAGAGAGAG CAACTCTCTT TAGAGAGAGT GAATCTCTCT  
4651 CTTCTCTCTT ATCTCTCTCT TTAATCTCTT TGAGAGAGT GATCTCTCT  
4701 AGCTCTCTCT CTCTCTCTCT AAACATCTCT AGCTCTCTTC AGCTCTCTCT  
4751 GGTCTCTCTT CTCTCTCTCT ATCTCTCTTC AGCTCTCTTC AGCTCTCTCT  
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5051 TGAGAGAGAG AATCTCTCTT GGTCTCTCTT GGTCTCTCTT AATCTCTCT  
5101 CTCTCTCTCT AGCTCTCTCT TACTCTCTTC GGTCTCTCTT AAGAGAGAG  
5151 ACTCTCTCTT AGCTCTCTCT GAGAGAGAGT AAATCTCTCT TAGCTCTCT  
5201 AGCTCTCTCT ATCTCTCTCT CTCTCTCTTC GATCTCTCTT AAAGAGAG  
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6851 AATCTCTCTT GGTCTCTCTT GGTCTCTCTT GGTCTCTCTT TACTCTCTTC  
6901 AATCTCTCTT GGTCTCTCTT GGTCTCTCTT GGTCTCTCTT TACTCTCTTC  
6951 AATCTCTCTT GGTCTCTCTT GGTCTCTCTT GGTCTCTCTT TACTCTCTTC  
7001 AATCTCTCTT GGTCTCTCTT GGTCTCTCTT GGTCTCTCTT TACTCTCTTC  
7051 AATCTCTCTT GGTCTCTCTT GGTCTCTCTT GGTCTCTCTT TACTCTCTTC

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[illegible]

10651 GACATTGTGA ATCCAGGAC TTTGGAAATG CGAGGTGGG AGATATGAG  
10701 GTCAAGAGAT GACAGATG CTGCTAATA GATGAAAT CCATTTAG  
10751 TAAAAATACA AAAATTTAG TTTGCTGCT GGTAGGCAAT TGTATTTAA  
10801 GCTATTAGG AGGTGATG AGGAGATTT GTTAACTTA GATGATGAG  
10851 GTTATATGA GTTAAATTA GGTATGCTA GTTAACTTA GATGATGAG  
10901 GAGATTTT TTTAAAAAA AAAAAAATA AAAAAAATA GTTATTTAA  
10951 TATGAGATG AAAAAATG ATAGATTTA AATAGGCAAT GTTATTTAA  
11001 GTTAACTTTA AATTTATG TTTAAATTA GATGATTTT TTTAAATTA  
11051 GAGATTTT TTTAAATTA TTTAAATTA TTTAAATTA TTTAAATTA  
11101 GTTAACTTTA AATTTATG TTTAAATTA TTTAAATTA TTTAAATTA  
11151 ATTTTATG GTTAAATTA TTTAAATTA TTTAAATTA TTTAAATTA  
11201 TGTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
11251 GATGATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
11301 TATGATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
11351 TTTAAATTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
11401 TTTAAATTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
11451 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
11501 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
11551 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
11601 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
11651 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
11701 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
11751 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
11801 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
11851 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
11901 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
11951 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
12001 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
12051 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
12101 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
12151 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
12201 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
12251 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
12301 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
12351 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
12401 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
12451 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
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12601 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
12651 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
12701 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
12751 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
12801 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
12851 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
12901 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
12951 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
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13101 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
13151 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
13201 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
13251 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
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13451 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
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13551 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
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13701 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
13751 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
13801 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
13851 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
13901 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
13951 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
14001 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
14051 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
14101 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA  
14151 GTTATTTA GTTATTTA TTTAAATTA TTTAAATTA TTTAAATTA

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14201 AATTATAGTA CTAAGGATAT ATTTGCAATG CTTTTTSSAA CCTAAATATT  
14251 TAAATATATA TAATTTATTT TTACTTCTTT ATAATATGAT TTTTGTGATA  
14301 TTACAACCTT TAGGTACTTT TTATTCTGCT ACATTCATTT TTAATCTTTT  
14351 CATAAAAG CAATGACAT ATGTATCTTA ATTATTTTAA GCTCTTCT  
14401 TTTATCGGAT AGCTAGTTTA TTCTCTTTT PTTCTTAAAA AGAGTCTTCT  
14451 GATATTTTCT TGAATAAAAA TTTAATCATT TGTACATACT TGTCTTCTAT  
14501 TTTAAAGSAA CTATAAATCT AGTAAATAAA TTTTAAATTA AATTGAATAA  
14551 AATTCTATAT ATCTGCAAGAA CTTGAGATAA CTTCTTTAAT GTGAGTTCTG  
14601 ACATTCAGCT GCTCTTAAAT CTTGAGAGAG TTTTATATCC AGTTTACTTT  
14651 CCGATCTGAT AATATCTTCT TCTAATACCT GATTCTTAAA CTATTTAATA  
14701 CAGCTAAGTG CATTATTTCT TATGAAAGAG CTTTGAAGAA TCAAAATGCT  
14751 TAGCTAAGTG CAGGTAATTA TAATTAATTA GCTCTCTTAT CTATTAATAT  
14801 AAATCTGATC AATCAAAATG TAACATATTA ATTCTTACTG TTTCTCTAGG  
14851 AATCTCTTCT TTAATCTATA ATGAATCTAT TTTATGATA GGAATATCTG  
14901 AATCTCTTCT GCTAAGTATA TCAAGATCT AAATATATAG CTATGCTAAG  
14951 TCTGAAAGTA TTTCTTCTCA TTTATGATTC AATCTATGAA AATGAGCAAA  
15001 ATATCTGAT CATAAGGCTT TCTTTGCTT AAGGAAATAT TGTCTTATAGA  
15051 AATAGGCTGG AAAGCTCTAT TGAGAGTAA GCAATCTAGA CTCTTTCTGG  
15101 CAAGTCAAGG AAAGCTCAAT AATGAGTAG TTTTACTTTC AGGTATAGCT  
15151 AAATCTAAGG GCTCTGATTA TGTCTATAG ACTGAGATAT GCTCTCTAGA  
15201 TTTTATGCT TACTTTTTCT CTAAGCTGCT TTTACTCTCA GGCATAGATA  
15251 TGTCTATAT CAGATCTGAG CATTCTGAG CTTCTACTGC CCAGCTAGAA  
15301 GTCCTGTA AAGGAAATCT CTCTTTCTT AICAGTCTCA CAAAGTCTCT  
15351 GGGCTGATG TATCTGATA AAATCTAGTA CACATCTCTA TTTCTGATA  
15401 TGAATAGCTG GAGGATAT TGTAGCTTTT TCTCTGAT GGGCTTACTG  
15451 AATATCTAT TTTTAGCTT TGTCTAGTG AGAAGAACTA AAGATCTG  
15501 GATTTAAGCT AGCTCACTCA AATCTAGCT AGATCTGCTA GGAATATCT  
15551 CTTCAAGCTG AATCTAGCTG CTATTAATA AAGATCTGAG ATTCTATCT  
15601 TGAATCTGAA AATCTATATA TATATATAT TTTCTTAT AAGCTATAT  
15651 ATATATAGCT TATCTATATA TATATGTAAT TGTATTTAT GCTATTTT  
15701 TGTATTTAT GTAAATAAAT ACATTTACTT TCTCTATATA TATATCTAT  
15751 CTATATAGCT ATCTCTCTA TTTCTATCT TTTCTAGAAA GAAATCTGAG  
15801 AATCTCTGAA CTTGAGCTAA TCAAGCTAAA AATCTCAAT CTATAGCTCA  
15851 GAGCTCTGAG CATTGAGCTA AGCTATATA AGGATCTCTG GCTGCTAAGT  
15901 CAAATCTGAG AATCTAGCTA GCTGAGCTA GCTGAGCTA GCTGAGCTA  
15951 TTAATCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16001 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16051 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16101 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16151 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16201 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16251 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16301 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16351 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16401 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16451 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16501 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16551 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16601 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16651 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16701 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16751 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16801 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16851 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16901 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
16951 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
17001 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
17051 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
17101 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
17151 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
17201 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
17251 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
17301 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
17351 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
17401 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
17451 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
17501 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
17551 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
17601 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
17651 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA  
17701 AATCTCTGAG CTTGAGCTA CTTGAGCTA CTTGAGCTA CTTGAGCTA

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17751 ATTTAAATTA TGTGTAAAGG AATGTTTAA TGAAGAACT TCATCTTAGG  
17801 TGTGTG TAA GCTCATTTG TTAATTGAGG TGCTTAATTA GAAAGGAGT  
17851 TCCCTTAAAG AACCAATATA AGTTCCAGCA TCCTTAATTT ATCTAGTAAA  
17901 GCTATAGAG GTGTAGCA TAAAGGAGG AATATAAAT ATCTAGTAAA  
17951 GCTCATTTG TTAATTTTA GTCATAGAT TGAAGAGTAA AATGTITGG  
18001 GAAAGAGAG GTCATAGAT TGAAGAGTAA TTTAGATTT AATGTITTTA  
18051 TTAGTTTTS GAAATTTAT TAACCTTAA TGAATTTAT AATGTITTTT  
18101 CTTTACCTTA AATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
18151 GCTCATTTG TTAATTTTA TGAATTTAT AATGTITTTT AATGTITTTT  
18201 TGAAGAGAG GTCATAGAT TGAAGAGTAA TTTAGATTT AATGTITTTT  
18251 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
18301 CTTTACCTTA AATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
18351 GAAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
18401 AATGTITTTT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
18451 GTTTTATTTT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
18501 TGTGTG TAA GCTCATTTG TTAATTGAGG TGCTTAATTA GAAAGGAGT  
18551 TGTGTG TAA GCTCATTTG TTAATTGAGG TGCTTAATTA GAAAGGAGT  
18601 AATGTITTTT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
18651 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
18701 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
18751 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
18801 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
18851 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
18901 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
18951 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
19001 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
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19101 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
19151 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
19201 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
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19351 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
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19451 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
19501 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
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19601 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
19651 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
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19751 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
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19851 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
19901 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
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20001 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
20051 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
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20301 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
20351 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
20401 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
20451 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
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20551 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
20601 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
20651 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
20701 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
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20801 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
20851 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
20901 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
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21151 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
21201 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT  
21251 TGAATTTAT TGAATTTAT TGAATTTAT AATGTITTTT AATGTITTTT

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24851 GAAAAAATG GAAATAGGAG AATCG COTT AAACCTCAAT TTTGTCCTG  
 24901 ATTAACCTAT GATCCTGCGC AACCTACGGA TGTGTTCTTT GTTTTASTTT  
 24951 CCGTATAGA CTTGABTAC TTAAIAGCC TCTATTCTCC TATGATCTC  
 25001 TGTAAATAG ATCATAAAGA GTAGTATTA TGAATCAGA CTTTATCTTT  
 25051 AATCTAAAT ATCAATTAAT TTTCTTAGC CATTTTACAG CTGTGAAAC  
 25101 TGAATAAAA TTTTAAATA TCTCTCTT AGTTTTTATA CTCTTAAAT  
 25151 GGGATTAATA ATAAACCTTA TCAATACAG TCTTTAAGA TATGAAATTA  
 25201 AAAATCTTT GTGAAATCT GAGTGAAGG TCTATTATAT TCACTAATTA  
 25251 TTAATCTAT TTTGCTTAA CAGCATTTT TACTTCTCTT CAAACAGCT  
 25301 GCTAAAGAT AGCTTAAGC CTGGCTATG TTGGCTAAA AAATCTTAC  
 25351 ACAATCTTA TCACTCAAT GAAATCTT TGAACCTAG SAATCTTTC  
 25401 CTGCTCTCT AGGTGCGAAG CATCAACTT TCAACCTAGT AAAATCTTTC  
 25451 CTTCTCTAA CATTATTGC CATAATCTA TCACTCTCT AUGCTTTTTC  
 25501 TACAAATCT TTTTCTCT TCTATCTTT TGGGCTTATA TCAAGAAAT  
 25551 CATTATCTG ACGAATCTA CATCTTTT CCGCTATCT TTTCTCAAT  
 25601 CGTTTCTAA TTTAGGACT TACATTTAG TATTCTATC ATTTTCTAT  
 25651 GATTCTCTG TAAAGGATCA GAAACCTG CATTCTAAT CTTCTCTAT  
 25701 TGAATACCTA CTTTCTCTG CAGCATTTT TGAAGAGACT ATCTTTTTC  
 25751 CCTCTCTCT TCTTCTCTG TTTCTAGAA ATCTATCTAT CATAGATTT  
 25801 TACCTTTAT TCTTCTCTG CTATCTAT CATTCTCTT ACATATCTC  
 25851 TTTTCTCTA GTATCTCTG GTTTCTAT CTATCTCTT GCAATATAT  
 25901 TTTAAATCT ATCTCTCTG CTTCTCTG TTTTCTCTT TTAATCTCT  
 25951 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 26001 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 26051 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
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 26151 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
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 26251 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 26301 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 26351 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 26401 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 26451 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 26501 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 26551 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 26601 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 26651 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 26701 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 26751 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 26801 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 26851 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 26901 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 26951 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27001 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27051 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27101 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27151 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27201 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27251 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27301 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27351 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27401 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27451 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27501 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27551 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27601 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27651 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27701 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27751 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27801 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27851 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27901 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 27951 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 28001 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 28051 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 28101 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 28151 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 28201 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 28251 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 28301 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT  
 28351 TTTCTCTCT TGGGCTTTT TTTCTCTG ATCTAAAT TTTCTCTCT

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28401 CCATGCCAGGA AACCTACAGA GGCCTAAGG ATGCTCTCTG TTTTITTTGT  
 28451 GGTCTTGGCA TTCTACAGAG TACCTACAGG CCCTACAGAG CGAGGAGAAA  
 28501 ACATTCAGTC TTCTTCTGAA TATTCAGTIS AATTCCTTT CAGTTTCTG  
 28551 ACATTCAGTC GATTCCTAGA GTCTCTCAT GGTTCCTTT TTTCTATAG  
 28601 GGTCTCTGTA CTCTCTCTG TCTTATATAG CCTCTCTCT CAGGCTCTG  
 28651 TCTTCTCTG TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 28701 CTCTCTCTG TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 28751 AATTCCTCT AATTCCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 28801 GTATTCCTG CAGATTCAG ATATCTCTG ATCTCTCTG AATTCCTCT  
 28851 GGTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 28901 CAGATTCAG CTTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 28951 GCAATTCCT CAGATTCAG TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29001 TCTCTCTCT AATTCCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29051 TCTCTCTCT CAGATTCAG TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29101 AGATTCCTG CAGATTCAG TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29151 GAATTCCTG TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29201 AATTCCTCT CAGATTCAG TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29251 TCTCTCTCT CAGATTCAG TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29301 CAGATTCAG TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29351 GGTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29401 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29451 AATTCCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29501 TTTTCTCTG TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29551 ATTCTCTCT AATTCCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29601 CCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29651 AATTCCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29701 TATCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29751 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29801 CAGATTCCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29851 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29901 TATCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 29951 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 30001 TTTTCTCTG TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 30051 AATTCCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 30101 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 30151 GGTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 30201 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 30251 GGTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
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 30351 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 30401 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 30451 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
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 30551 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
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 30651 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
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 30801 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
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 30901 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 30951 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 31001 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 31051 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
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 31151 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 31201 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
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 31301 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 31351 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
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 31651 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
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 31801 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 31851 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 31901 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 31951 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
 32001 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT

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31951 TCTGTTTCTT ACAATGCTG TAACTTGGG CCAACCTCTT AACCTATTCA  
32001 ACCTTTTCTT TCTTTTCTT TGAATAAGA AATTGATTT CTACTTAA  
32051 TGATTCTAG CGAACTTCTT AAATCAAC GTAAATATA TAATACTAA  
32101 TAATAAATAT ATAAATATT AACATCTATT GAGCAATTAT ATTCTTACT  
32151 TTCAATGCTT TATTCTATT AATCATGAAA GATCTCTAT GAAAGCATA  
32201 ATGTTTCTAG CCAATTTTA TAGATTATA AAAAGAGCTT TTAGTAAAT  
32251 ACTAACTTA CCAATCTTA AAGAGAGCTT GAAAGAGAT TTGAATTTAG  
32301 ATCTCTCTA TCTTTTAACT TATTACTATT AATTAATA CCAAGAACTC  
32351 AAAAAAATAT GAAAGAACT CTGAGAGCTT TCTGATGAA ATGATGAA  
32401 TGAAGAGAG GAAAGAACT GATCTCTAT GATCTCTAT GATCTCTAT  
32451 GATCTCTAT TGAAGAGAT TCTGAGATG GATCTCTAT GATCTCTAT  
32501 TGCTTCTAT ATCTCTAACT CCAAGAGAGT TGAAGAGAG TTTAAAGCTC  
32551 AGCTCTAACT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
32601 ACAGAGAGAG GATCTCTAT CCAAGAGAGT AAGAGAGAGT GATCTCTAT  
32651 AGCTCTAACT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
32701 AAGAGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
32751 CCAAGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
32801 ATAGATCTAT CCAAGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
32851 GATCTCTAT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
32901 AGCTCTAACT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
32951 GATCTCTAT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33001 AGCTCTAACT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33051 AGCTCTAACT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33101 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33151 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33201 AATCTCTAT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33251 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33301 ACTCTAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33351 CCAAGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33401 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33451 ACTCTAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33501 CCAAGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33551 CCAAGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33601 GATCTCTAT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33651 CCAAGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33701 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33751 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33801 AATCTCTAT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33851 AGCTCTAACT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33901 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
33951 CCAAGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34001 CCAAGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34051 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34101 GATCTCTAT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34151 AGCTCTAACT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34201 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34251 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34301 GATCTCTAT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34351 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34401 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34451 AGCTCTAACT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34501 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34551 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34601 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34651 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34701 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34751 AGCTCTAACT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34801 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34851 AATCTCTAT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34901 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
34951 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
35001 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
35051 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
35101 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
35151 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
35201 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
35251 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
35301 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
35351 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
35401 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT  
35451 TCTGAGAGT TCTGAGAGT AAGAGAGAGT GATCTCTAT GATCTCTAT

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35501 TATCTG AGG TACTAGGAG GCTGAGGCA GAGAAATTCT TGAATCTGG  
35551 AGGCGGAT TGAATGAGG CAAGGTTAC GAGCTGACT CCAGTCGGA  
35601 AACAGATTA GATTAATTT AAAAAACAA AAGAAATTT TGGTACAGAG  
35651 TCTAAA ATT TTTATGATAA GAAATTTT AAATGATAGA GTTTGAGAT  
35701 TATCTTTTA AATATTTAT TTTGAGAGG TTTTATTA CTGGATACAA  
35751 ATCTTTTCT TTAATGCTT TGTAAAGAA TTTATTTTA AATGATAGA  
35801 AATTTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
35851 TGAATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
35901 TGTCTTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
35951 TGAATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36001 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36051 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36101 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36151 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36201 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36251 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36301 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36351 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36401 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36451 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36501 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36551 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36601 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36651 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36701 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36751 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36801 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36851 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36901 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
36951 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37001 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37051 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37101 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37151 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37201 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37251 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37301 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37351 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37401 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37451 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37501 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37551 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37601 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37651 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37701 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37751 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37801 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37851 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37901 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
37951 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
38001 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
38051 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
38101 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
38151 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
38201 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
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38351 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
38401 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
38451 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
38501 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
38551 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
38601 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
38651 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
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38801 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
38851 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
38901 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
38951 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA  
39001 TTTATTTAT TTTTGTGAG TACCTTTT TTTATTTTA AATGATAGA

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39051 TGAAAAATG SARANTDOOT TAATAAATGT AGAAGGTGT TTTGTATAT  
39101 CTTCGTTGT SARATGGAAT ATTTTTSAG ATTGATGTT TGTGAGTAAT  
39151 TGCAATGTTG GTATGAGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT  
39201 ATTTAATGTTG GTATGAGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT  
39251 TGCAATGTTG GTATGAGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT  
39301 GATTTATGTTG GTATGAGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT  
39351 TGCAATGTTG GTATGAGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT  
39401 GTATGAGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
39451 ATTTAATGTTG GTATGAGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT  
39501 AAAGAAATGTTG GTATGAGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT  
39551 TTTTATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
39601 TTGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
39651 CCAGAAATGTTG GTATGAGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT  
39701 GTGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
39751 GCTTTATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
39801 CAAGGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
39851 AATTTAATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
39901 GAGGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
39951 ACATTTATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40001 TTGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40051 TCATGAGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40101 AGGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40151 TCAATGAGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40201 CTAAATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40251 AAGATGAGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40301 GTATGAGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40351 AATTAATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40401 TAAGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40451 CACAATGAGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40501 TATATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40551 GTTATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40601 CTTTATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40651 AGGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40701 TCAGGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40751 CTGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40801 CTGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40851 CATAATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40901 AGGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
40951 AGGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41001 TCAATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41051 TCAATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41101 GAGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41151 AATGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41201 CTTGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41251 TCAATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41301 TCAATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41351 CAAATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41401 CTAATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41451 TATGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41501 AATGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41551 AGGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41601 TTAATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41651 CTTGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41701 GTTATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41751 TGTGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41801 GCAATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41851 CTGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41901 TATGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
41951 CAAATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
42001 TATGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
42051 GAAATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
42101 GAAATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
42151 ACTGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
42201 GTATGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
42251 GATGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
42301 AATAATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
42351 GAGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
42401 AGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
42451 GTTATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
42501 ATAGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT  
42551 GATGATGTTT ATTGATGTTT TGTATTAAT TGTGAGTAAT TGTGAGTAAT

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53251 CAAGAAAAGT GTTCTCAGGT ATGSGGSCACA TACCTAGAAC TGTGTCATT  
53301 CATCTTCACA CTTAAATTT GGGGATAGG TTGATCCTG ATACTACTT  
53351 CTCTT ATC CAATGCTG TCCTTTTG GGGGAGCTG TTCTCTGA  
53401 TGATAAATAA TATTAAAGC THAGCTATT ATAGCTCAGG COTCAATGA  
53451 ASGTCTATG CCAAACTGCT TATCTTAC AGACTATC TAACCAAACT  
53501 TTCTCTATC AGAAAGATAT CAAAGAAAA ACTTATTCTC TATAAATA  
53551 AGAAATAGAA CTCTATAGG TAAATTTCT ATGCTCTCTC TACATCTCTC  
53601 ACTTCTAGAA CAGATATTAA AATCTCTCTT TTCTCTCTA ATTACTGAG  
53651 AGCTCTAGAA CAGATATTAA TACATCTCTT TTCTCTCTA ATTACTGAG  
53701 ACATCTAGAA AAGATCTCTT AATCTCTCTT TTCTCTCTA ATTACTGAG  
53751 ATAAATAGAA AAGATCTCTT AATCTCTCTT TTCTCTCTA ATTACTGAG  
53801 GCGAAAGTAT TCTTATTTG CAGATCTCTT AATCTCTCTT TTCTCTCTA  
53851 GTAAATCTCT AAGATCTCTT CAGATCTCTT AATCTCTCTT TTCTCTCTA  
53901 TTCTCTCTA TGAAGCTCTT CAGATCTCTT AATCTCTCTT TTCTCTCTA  
53951 TCAGATCTCT TATCTCTCTT CAGATCTCTT AATCTCTCTT TTCTCTCTA  
54001 TAAATCTCTT TCTTCTCTA TGAATCTCTT CAGATCTCTT TTCTCTCTA  
54051 GATCTCTCTA ACCATCTCTT CAGATCTCTT AATCTCTCTT TTCTCTCTA  
54101 ATCTCTCTT ATAGTCTCTT TTCTCTCTA TGAATCTCTT CAGATCTCTT  
54151 AGTCTCTCTA ACATCTCTT CAGATCTCTT AATCTCTCTT TTCTCTCTA  
54201 TGATCTCTA CAGATCTCTT AATCTCTCTT TTCTCTCTA TGAATCTCTT  
54251 GTTCTCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
54301 TGAATCTCTT TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
54351 ATCTCTCTA GTTCTCTCTT TGAATCTCTT AATCTCTCTT TTCTCTCTA  
54401 AAGATCTCTT TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
54451 GTGATCTCTT TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
54501 CAGATCTCTT AATCTCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
54551 GTGATCTCTT TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
54601 ATGATCTCTA TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
54651 CAGATCTCTT TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
54701 TCTCTCTCTA TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
54751 TTCTCTCTA TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
54801 AAGATCTCTT TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
54851 TCTCTCTCTA TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
54901 AGGATCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
54951 TTCTCTCTA AGGATCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT  
55001 AAAAGATCTT AAGATCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT  
55051 CTAAATCTCT AAGATCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT  
55101 TATCTCTCTT TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
55151 AAGATCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
55201 AATCTCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
55251 GGTCTCTCTT TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
55301 GTGATCTCTT TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
55351 AGGATCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
55401 CAGATCTCTT TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
55451 TGTCTCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
55501 TGTCTCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
55551 AAGATCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
55601 CAGATCTCTT TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
55651 CAGATCTCTT TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
55701 TGTCTCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
55751 TTCTCTCTA TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
55801 AATCTCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
55851 TTCTCTCTA TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
55901 AGGATCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
55951 TGTCTCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
56001 AAAAGATCTT AAGATCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT  
56051 GGAAGATCTT AAGATCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT  
56101 GGTCTCTCTT TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
56151 ATCTCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
56201 CAGATCTCTT TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
56251 CAGATCTCTT TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
56301 TTCTCTCTA TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
56351 TTCTCTCTA TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
56401 CAGATCTCTT TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
56451 ATCTCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
56501 TGTCTCTCTT CAGATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
56551 CAGATCTCTT TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
56601 TGAATCTCTA TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
56651 TGAATCTCTA TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
56701 TGAATCTCTA TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA  
56751 TGAATCTCTA TGAATCTCTA TGAATCTCTT AATCTCTCTT TTCTCTCTA

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56801 GGTTCCTTA AGCATATTTG CAAAGAAAT ACTTGAAGGA SAACATCAGA  
56801 CTTCCTTA TTCTTGGGT CCGGCTTAC TTCAACTA CAGCAATGTG  
56901 GGAATGACT GGAIGCTAAG CTTGATAT AGCACTGGG AAACCTTTTC  
56901 TGTAAAGAC CAJATAGTAA ATGCTTAA TTCTTGAAG CATAAGGTTC  
57001 CTGCTAAT TATTCAACTT TGTCTTGA GATCAAGG AGCAACTGAT  
57001 TGTCTTCTT TATAATTGAA GCTCTTGA TGTCTTCTT CTGAATGATA  
57101 ATATTTAAAT SAAGGUCATA GCTCTATTC AATAAAAT TATTTACAAA  
57101 CATATATTC AATTTCGCTT ACATATATA GTTTCGAA CCGTGTTTAA  
57201 GGAATGACT CCGTCTCTT TAGTAAATAT GTTTCGAA GTGCTCTAA  
57201 ACATATTA TCTTATCTT AATCTCTT TATTCGAA AAGTGAAGG  
57301 CCAATATTC TTTCGCTA GCTCTTGA AATAATAT TCTGAGGCG  
57301 TGTCTTCTT SAATCTCTT CCAATATTA AAAATCTTA GCTCTTAA  
57401 TTCTTCTT ATCTTCTGAG ATGATTTCT AGCTGATAT TAGATGTTG  
57401 TATCTTCTT CTATCTTGA AGGAGCTTA CTAAGCTAGA GCGAGTTT  
57501 TATCTTCTT CTATCTTGA AGGAGCTTA CTAAGCTAGA GCGAGTTT  
57501 CATCTTCTT AAGAGGGAAG ACTTGAAGAA CTCTTCTT TTAGAGGAA  
57501 TCTATCTT CCAATATTC GGAAGGAT GGAAGGAA TAAATGGTGT  
57601 GAACTATCT GAGCTCTCT TATCTTCTT TGTATCTT ATTATGCACT  
57601 TGTATCTT CATCTTCTT AATCTTCTT AAGTCTTCT TTAATCTTCT  
57701 TATCTATCT TGTAAAGTC ATTCTCTT CTCTCTTCT AATGAAGGAA  
57701 TTCTATCTT ATTCTCTT ATGATATCT ATCTCTTCT TAACTGATG  
57801 GCTATCTT CAGCTCTCT CATCTCTT GGTCTCTCT CCGAGGCTCT  
57801 AATCTCTT CTCTCTTCT TCTCTCTCT CTAAGCTAGA AGTATGCTG  
57901 AAATCTCTT AGCTGATAT AATCTCTT AATCTCTT ATTGCTCTT  
57901 GGAAGGAT TTTATCTT GGTCTCTT CAGCTCTT AATCTCTT  
58001 GCTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
58001 CAGCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
58101 GCTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
58101 GCTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
58201 AATCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
58201 TATCTCTT CATCTCTT TGTCTCTT AATCTCTT AATCTCTT  
58301 CTCTCTTCT AATCTCTT TGTCTCTT AATCTCTT AATCTCTT  
58301 CATACTCT TGTCTCTT TGTCTCTT AATCTCTT AATCTCTT  
58401 CCAATCTT TGTCTCTT TGTCTCTT AATCTCTT AATCTCTT  
58401 ACATCTCTT AATCTCTT TGTCTCTT AATCTCTT AATCTCTT  
58501 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
58501 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
58601 AATCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
58601 AATCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
58701 CTCTCTTCT AATCTCTT TGTCTCTT AATCTCTT AATCTCTT  
58701 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
58801 CTCTCTTCT AATCTCTT TGTCTCTT AATCTCTT AATCTCTT  
58801 AATCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
58901 GGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
58901 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59001 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59001 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59101 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59101 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59201 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59201 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59301 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59301 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59401 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59401 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59451 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59501 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59501 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59601 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59601 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59701 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59701 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59801 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59801 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59901 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
59901 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
60001 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
60001 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
60101 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
60101 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
60201 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
60201 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT  
60301 TGTCTCTT CTCTCTTCT TAACTCTT AATCTCTT TGTCTCTT

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63901 TTTTITTAATT TCCAGATGA TCCAGTATA CAGATCAGTT CATCTAAGAA  
63951 CCACTACCTT GGAAGAAATG TACTAGAAAT TTATTGTGTA TATAAATGAC  
64001 CCGAGATTTT GTTAAATAGC AGAATTGTG GGGGCAGGCT CTAAGGCTTA  
64051 GCAATTTTAA CAAGCAATG CTTCTGTGTC CCAATCAATA TTTTGCATAG  
64101 TAAAGCTTAA GAGATCTCTT GTCTCTCTCT TTTTCATAAG TTAAAGAGA  
64151 TGTAAAGATG AAGCTTTCTT TTTTAAATAT CTAAGCTTAG GATGATTTAT  
64201 TTATTTAATT GTDAGGCTT TTTTCCAA ACAACTTTT TGTATAGAAA  
64251 CAGGCTCTG TATATTTC CCGGCTGTT TAAATCTTT GGGCTCAAA  
64301 AATATCCCA CTTAGCTTC CCAAACTCC AGGATTACAG GCATGAGTGA  
64351 CTGATCTAG CAGAGCTTG CTTTAAAAA TAAATCTAG AATGCTTAA  
64401 AGATATCTG TGTGAAAGT AGTTTTCTT CTTATTTAT TACATCTAA  
64451 CATTCTTCT TAACTAAAAA AGAAATAT GGGCTTTAG TAAAAAAGC  
64501 ATTATTTGAG CTTGCTGATG CTCAGCTGAT TCTATTTTA TATGCTAGA  
64551 TGTCTTACTG GTGCTGAATC CATATAGGTC TGCAGCAAC TCAATCTTG  
64601 CTTCTCAAA AAAAAAAT CCAATCAGAG GATATAGAA GATGAAAGA  
64651 CTGAGCTAG TTTCCAGGCA GAGATCAGT TTTATTTAAA AGCTTTAGAA  
64701 CAGGAATGAA AAAAAATGAA GTACCTTGG AAGAGGCTTA ACGGGGAGAC  
64751 TTSAGAGAGC AAGTGCATGG TTTGACCTCT GACTTGGGCT TTTATGCTT  
64801 GGTGCTCTTC GGGGCTTTTA CATTATTTT CCACTGATTC TTGATCTGG  
64851 ATGCACTGTC CATATGCAAA GTGCTCTCT AGTCTTGTG AAGAGCTGCA  
64901 TGCACAGTCT GTTTAGTGA GTTCTATGCA TGTCTAGCTG AGGATCTCT  
64951 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65001 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65051 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65101 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65151 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65201 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65251 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65301 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65351 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65401 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65451 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65501 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65551 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65601 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65651 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65701 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65751 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65801 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65851 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65901 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
65951 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66001 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66051 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66101 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66151 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66201 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66251 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66301 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66351 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66401 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66451 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66501 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66551 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66601 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66651 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66701 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66751 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66801 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66851 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66901 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
66951 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
67001 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
67051 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
67101 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
67151 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
67201 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
67251 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
67301 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
67351 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG  
67401 CTTCTTAAAG TATCTGTAAG ACCATATGAC AGTTAAATC CACATTTTG

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67451 TTGTTATAGC TGCAATTTTT TCAGAGTTTT TAATTGTTGA ACTACAGTBT  
67501 GTTCTGAGG CTATTCTTGA TTTTTCACA GTGTGGGGC GAAAGTTTBT  
67551 CCTTTTACGA ATTCAACTAT TTTTTCATTT AGTTAAGGCT AAGAAAGAG  
67601 AGGTTAGAG ATCAATTTGT GTTTCAAAAG GTGGCTTTTC CTTTCAGTTG  
67651 ACTTAATATG TCTCTTAGCT CCGAGTCAAG TGTCTAGTA AGATCTGAA  
67701 GTTAATATTT CCGTGAAGCT TTTATAATTT ATTGAGAAAT CAGAAATAGG  
67751 TGTCTAGAG TTTTTCAGG GCAATAAATC TATTCTTTCT TATTATTTTG  
67801 GATCTCTGA ACCCTTAAAG TAGTATCTTA AATTCAGTTA AGTCTTAAAC  
67851 CTAATATTTT TGCAAGAAAT AACATTAATA GTAAAGAAATG TATCTTTGAA  
67901 GCAATATTTT TATCTTCTGA GTCTCTAGTT TCTCTTTTTC TGAATATAGC  
67951 AGGCTCTTTC TATATATTTT GAAAGGCTCT TCCACTTTAA AACTTATTTA  
68001 ACTTAGAGT AAGCACTCTT CACTTAAGT GTGAAGATTG GTCTATCTAC  
68051 TCTTTGTAAG CTTAGATGAA ATGTTTAAAA ACTTATTTTA CAGTATCTTG  
68101 TCTATTAAAT ATTGGAATAC ATTGAGAGAA ATGTCTCAGT GAGCAATTTG  
68151 AGGATCTCTT GAATATCTGA GAGTCTTATC TATACAAATC TAAATGCTAT  
68201 AGCTATCTAC ACAGCTAGGC TATATTGTAT GATAAGATTT ATAGCTCTTA  
68251 GATTAATAGC CTCTGCACTA TCTTACTGTA CTGAATACAG AGGCAAGTCT  
68301 AACACAATGG TAATATTTTG TGTATCTAAA TATATCTAAA CATAGTAAAG  
68351 GTACAGTTAA AATATAATAT AAAAGATGAA AATAGTAAAC CCTGTATAAG  
68401 GCACTTACGA TGAATGAGGC TTGAGAGACT GAGCTGTGTT CTGGTGAATC  
68451 AGTGAAGTGA TGATCAATGA ATGTGAAGGC CTAGGACATT ACTATGCACT  
68501 ACTATAGACT TTAATAACAC TGAAGCTTA GGTATCTAAT AATTATTTTA  
68551 GAGCTCTATT TTTATTTTCT TTTGTTTCTG AAATGAGTCT TCACTTTTCT  
68601 CACTAGGCTT AGACTCTAAT GGTAAATCTT TGTCTCAGT CAACTCTTAC  
68651 CTCTAGGCTT CAGCTCTATC TCTCTCTCTA GCTTCTCAAG TAGCTGAGAT  
68701 TATAGGAGGC TCTCTCTATG TCTCTCTAAT TCTTTTAAAT ATAAAGTCTA  
68751 CTCTCTTATC TCTATTTTCT TACTGTACAA ACTTTTAAAT GTTTTAAAT  
68801 TTTGATCTTT TTTGATTAAC AGCTTAAAC ACAAACATAT TGTATCTTAA  
68851 TATAATTTT TTTTCTTAT ATCTCTATGC TATAAGCTTT TCTTTTCTTA  
68901 TTTCTAATTT TTTTCTTAT TTTTAACTTT TTGGTTAGAA AATGTTTAA  
68951 GGTAAAGAC ACAAACATGA GAATTTATAT CTTTAAACTT TAAATGTTTA  
69001 AGAAGTAAAG ATATTAAGAC ACAAACATAT GATTAGCTCT AGGCTCTAC  
69051 TGGGTAGAGA TCACTCAATC CATTCTTTT CTTCTCAGTC CACAGCTTCT  
69101 CCGCTGAGAA GCTCTCTAGT GGTAAATCTA CCGCTGAGGC TCTCTCTAC  
69151 TATAATCTTG CTTCTCTCTG GAATAGCTCT TGAAGGACTT GCTGAGCT  
69201 ATTCTACAG TACTTTTTT TATAAGTAGA AAGCTCTCAC TGTAAATAA  
69251 TAACATATAT AGTAAATCTA TAAATAGTCT ACATACTCTG TTTATTCTAA  
69301 TATTATCTTA CTCTACATGA CTCTATCTGT TATACTTTTA TATAAATCTA  
69351 TACCAATATA GCTTTCTTTA AGGCAATC AGCAGAAACA CATTATTAAT  
69401 TACTCTCTT ACCTTACTAT GGTCAATATA TCACTAAACA ATAGCAATTT  
69451 TTTAGCTCTA TTATAATCTT ATGGAATCTA GGTCTATATA GAGCTCTAT  
69501 GTTAATCTAA ACATCTATAT CTCTCTCTTT ACCTATCTTT GGTATATTT  
69551 ACATATCTA AAATCTCTG CTTCTATACA GTCTATCTAA TTTTGAATAA  
69601 CTTATATAGT CATTCTAACA CATTATATAT CAATATATAA AATATTTTAA  
69651 TTTCTCTAAA AAGCTTTTCT AAGCACTTT ATAGGCAAT TTTCTCTCTG  
69701 CAATCTAGGC CTCTGGAAGC ACTGATTTGT TTTCTGTTTC TATAATTTT  
69751 TTTCTTTCTA GATCTCTATC TACTCTAAT TCTCTAGGAT CTAGCTCTTT  
69801 CATTCTCTCT TCTCTCTCTT AGATCTATTT TGAGATCTCT TCACTTTCT  
69851 GGTCTCTCTA CTAGCTCTCT CTTCTCTAT GGTCTCTAAA TTTCTCTCTG  
69901 TATCTCTCTA CATAATCTG TTTATCTAT CCGCTCTCTA TGAATCTTAA  
69951 GGTCTCTCTA AATTTCTCTA ATTCTCTCTA AAGCTCTCTA AATATCTCTA  
70001 ATATCTCTCT TTTATCTCTA ATATCTCTA ATTCTCTCTA TGTAAATCTA  
70051 ATGCTCTCTA GATCTCTCTA ATATCTCTA ATTCTCTCTA TGTAAATCTA  
70101 AATTTCTCTA CTGCTCTCTA ATATCTCTA TTTCTCTCTA TTTCTCTCTA  
70151 GGTCTCTCTA TGAATCTCTA ATATCTCTA TTTCTCTCTA TGTAAATCTA  
70201 AATTTCTCTA CTGCTCTCTA ATATCTCTA TTTCTCTCTA TGTAAATCTA  
70251 GGTCTCTCTA TGAATCTCTA ATATCTCTA TTTCTCTCTA TGTAAATCTA  
70301 AATTTCTCTA CTGCTCTCTA ATATCTCTA TTTCTCTCTA TGTAAATCTA  
70351 GGTCTCTCTA TGAATCTCTA ATATCTCTA TTTCTCTCTA TGTAAATCTA  
70401 AATTTCTCTA CTGCTCTCTA ATATCTCTA TTTCTCTCTA TGTAAATCTA  
70451 GGTCTCTCTA TGAATCTCTA ATATCTCTA TTTCTCTCTA TGTAAATCTA  
70501 AATTTCTCTA CTGCTCTCTA ATATCTCTA TTTCTCTCTA TGTAAATCTA  
70551 GGTCTCTCTA TGAATCTCTA ATATCTCTA TTTCTCTCTA TGTAAATCTA  
70601 AATTTCTCTA CTGCTCTCTA ATATCTCTA TTTCTCTCTA TGTAAATCTA  
70651 GGTCTCTCTA TGAATCTCTA ATATCTCTA TTTCTCTCTA TGTAAATCTA  
70701 AATTTCTCTA CTGCTCTCTA ATATCTCTA TTTCTCTCTA TGTAAATCTA  
70751 GGTCTCTCTA TGAATCTCTA ATATCTCTA TTTCTCTCTA TGTAAATCTA  
70801 AATTTCTCTA CTGCTCTCTA ATATCTCTA TTTCTCTCTA TGTAAATCTA  
70851 GGTCTCTCTA TGAATCTCTA ATATCTCTA TTTCTCTCTA TGTAAATCTA  
70901 AATTTCTCTA CTGCTCTCTA ATATCTCTA TTTCTCTCTA TGTAAATCTA  
70951 GGTCTCTCTA TGAATCTCTA ATATCTCTA TTTCTCTCTA TGTAAATCTA

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71001 ATTACTAGAC AATAAATTT TTTCAGCTCT ATTATAATCT TATCGACCA  
71051 CCATCATATA ACCAACTAT TGTAAACCA AACATCATTA CATATAAT  
71101 GACTATATTT TGTATAATT TTATACAAA AAAAATTCG TGAATTTGCG  
71151 CTATCTACCC AATCTCTCT TCGTTGATTT CACTCCTTT TSCATCTCAA  
71201 CCGACCTCAC ATATCTTCA TCGTTCTGAC ACACCCCTATT GCTCTCTCC  
71251 AATCTCTTT AATCTAAA GTTCTCTTT TACAAAGCTT AATCTCTAAAT  
71301 AATCTCTCTC TGTCTCTCA CTAGAAAAC AAGGCACAA GACTTCTATG  
71351 CTTCTCTCAA GTTCTCTCA ITCTCTAAAG GAAAAGCTTG GAAAATCTCA  
71401 CCGAACTCTG GCTCTCTCA CTATCTATTT GACCACTCT TGAATCTCTG  
71451 CCGCTCTAGA CTTCTCTCA TCTCTCTCA TTATTTTATC TGAATCTCTA TAACTCTTT  
71501 GTCTCTAGAG TCTCTCTCA TTATTTTATC TGTCTCTCTG TTAATCTCTT  
71551 TTATCTAATA TGAATCTCT AATCTCTCT TGTCTCTCTG TTAATCTCTT  
71601 AGCTTTCTCA AATCTCTCT CTTCTCTAT AATCTTTCTG GAACTCTCTA  
71651 GCACTCTCTA AATCTCTCT CTTCTCTAT AATCTTTCTG GAACTCTCTA  
71701 ATCTCTCTCA TATCTCTCT TATCTCTCT AATCTTTCTG GAACTCTCTA  
71751 CAGCTCTCTA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
71801 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
71851 GCTCTCTCTA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
71901 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
71951 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72001 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72051 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72101 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72151 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72201 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72251 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72301 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72351 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72401 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72451 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72501 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72551 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72601 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72651 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72701 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72751 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72801 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72851 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72901 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
72951 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73001 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73051 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73101 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73151 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73201 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73251 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73301 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73351 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73401 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73451 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73501 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73551 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73601 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73651 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73701 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73751 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73801 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73851 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73901 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
73951 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
74001 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
74051 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
74101 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
74151 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
74201 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
74251 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
74301 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
74351 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
74401 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
74451 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA  
74501 GTCTCTCTCA AATCTCTCT AATCTCTCT TATCTCTCTG GAACTCTCTA

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78101 ACTTAAATCT CACCTCCTG GGTAAAGTG ATTCTCTCTG CTCAGCCTCC  
78151 TGAATTAATG GAATTACAGG TGTGACGAC CAGGCGCAGG TAATTTTTST  
78201 ATCTTTATA GAGAGGGGTC TTAATATAT TACCCAGGCT GGTTCGAAC  
78251 TCCCAATTT GATGATGCA CAGCTCTG CAGGCAAAAG TGTTGGATT  
78301 ACAGAAATTA GATAGGCTG CTGCTCAAA ATATCTCTCT TTATCTATG  
78351 GGTAAATAT TACCTCTCT TATCTATCA TTTGCAACG AGITTTATAT  
78401 CTITTTTAT GGTCTCTCT AATTTCTTA TTCTCTAT TTATGCTCA  
78451 GTAATTAAT TCTCTCTCT TATTTCTAT CTGCAATAT CATTATCTCT  
78501 CAGCAATTT TTAGAATA TGTCTATCT CAGTAATAG CATAGAAAG  
78551 TCTCTCTCT TCTCTCAAG TAATATTCA CAGCAAAAG GCAGATGATA  
78601 AAGCAATTA TAAATATT CAGCAATGA TAAATATTT TAAGAAATG  
78651 AAGTCAATA ACGAAGTGA AATTTTTAT GAGGCTCTG TCCAGGCTG  
78701 GAGCAATTT TTAGATAT TAAATCTT GCAATTTCTG CAGATATAT  
78751 TCTCTCTCT GGTCTCTG TCTCTCTAA ATATCTCTAA ATCTAGGAG  
78801 AGCTCTCT GATAGGATAT CTCTAGAGG ATCTCTGAG TCTAGCTCT  
78851 AGCTCAATT AATCTCTCT TCAATCTTA TAATCTCTAA AATATCTCT  
78901 AGCACTCT AATCTCTCT CAGCAAGAA AATCTCTCT AATGAGAG  
78951 CAGTCAATT AATCTCTCT AAGGCAAT CAGGCTCTG AATGAGAG  
79001 AGCTCTCT TTAGGCAAG CAGTCTCTG AAGGCAAT AATAGATCT  
79051 TAAATAAGT CAGCAAGAG GGTCTCTCT AATGAGAG AATAGATCT  
79101 GAGCAAGAG TTAGGCTCT CAGTCTCTG AATGAGAG AATAGATCT  
79151 GAGCAAGAG TTAGGCTCT CAGTCTCTG AATGAGAG AATAGATCT  
79201 GAGCAAGAG TTAGGCTCT CAGTCTCTG AATGAGAG AATAGATCT  
79251 CAGTCAATT AATCTCTCT AAGGCAAT CAGGCTCTG AATGAGAG  
79301 GATCTCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT  
79351 TCTCTCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT  
79401 ACTCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
79451 AAGCTCTCT AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
79501 GATCTCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT  
79551 TATCAATTT AATCTCTCT AAGGCAAT CAGGCTCTG AATGAGAG  
79601 CAGTCAATT AATCTCTCT AAGGCAAT CAGGCTCTG AATGAGAG  
79651 AAGCTCTCT AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
79701 AAGCTCTCT AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
79751 TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT  
79801 ACTCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
79851 TCTCTCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT  
79901 CTTCTCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT  
79951 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
80001 TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT  
80051 TCTCTCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT  
80101 ACTCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
80151 CAGTCAATT AATCTCTCT AAGGCAAT CAGGCTCTG AATGAGAG  
80201 AATCTCTCT AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
80251 TCTCTCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT  
80301 TCTCTCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT  
80351 ACTCTCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT  
80401 TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT  
80451 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
80501 CAGTCAATT AATCTCTCT AAGGCAAT CAGGCTCTG AATGAGAG  
80551 TCTCTCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT  
80601 TCTCTCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT  
80651 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
80701 TCTCTCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT TTAGGCTCT  
80751 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
80801 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
80851 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
80901 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
80951 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
81001 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
81051 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
81101 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
81151 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
81201 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
81251 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
81301 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
81351 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
81401 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
81451 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
81501 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
81551 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT  
81601 AATCAAGAG AATCTCTCT CAGTCTCTG AATGAGAG AATAGATCT

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81651 CATGTATGTC CTAAAGAAAG TCTCTAAAT CTGGATATA GAGCTATCAA  
81701 ACAGTHTTC TCAGAAAGCA AATTGAAAT GGCTTAAC CC ATTGAATTT  
81751 ACAAGATT GCATTTTATA GAAAAAGAA TGTGTGATAA GATATTTTC  
81801 TTAAGATTA GGTTTTGAG GTGGGAATTA TTTTCTTCT GAGTTTTCAG  
81851 AATAAGAAAT TTTTCTTCT ACATTAAAG AGAGAAATGA AAAATTTAG  
81901 TATTATAGA AGTTATGTC ATATGATAA GCAGATAAA TTTGATATC  
81951 CTTCTGAAA TAAATTAT CTGTAAAGG GAAATATAA TGGTATTAAC  
82001 CCAAGATTG GTTTCTTCT CTGTAAAGG GAAATATAA TGGTATTAAC  
82051 AAGGCTAAA TAAATGATA ATGAGAGGAT AAATTTAAAG TATTTAATTT  
82101 AATGCTTTC ACATAGTAG TTTTATTA CAATTAGTA CTATATTAAT  
82151 TATTATTAAT TAAATATTT TATAGTAAA TAGAATAAG ACTGCTTTT  
82201 GTTCAATATA GATATTAAG ATGTCTTTT CTGAATTTG AATGATTAAT  
82251 TTTTCTTGA TTTTATTAAT CAAAATTTA TTTGATTTA ATTGAATGA  
82301 GGAAGGAAAT GCAGATGAG GAGGGAAGT AGTCTTATA CCAATGCTT  
82351 TATCTGAGG ATTCTAAAG TTAGCACTAC CTATTTTTT CACAAGGTTA  
82401 GTCTTCTTT TGGGGGGTG TCTTGCAAA TGGAGATTT TCAATGATAT  
82451 CTTTGGGCT TATCTATTAT AAGATGCTAG CAGCAAACTA ACCTCTTCCA  
82501 AGTTCTGAT AGCAAACTA TATCCAGATA TTTGGGAGT GGGGGGACTT  
82551 GGTCCAGAT GAGAGTCACT AATTAAGAG TACATTTCT CATGATGGG  
82601 ACATGTAGG TACAGGCTA GGCATGACA GGCAGGACA GAGGAGTGG  
82651 GAATTTTTT TCTTAAAGG TCCCAAGTAG CAAATATTT AGGCACTGTC  
82701 TCTTAAAT AATAAGCTT GGCATGAGT TGAAGGAGT CCAAGAGTAA  
82751 CACATAGAT AAGATTTTC AGCAAACTA TTTATGCTT CTGAATTTG  
82801 AATTATATAT AATTTCATG TCTCAATAG TAATCTTTT AAAATTTTAA  
82851 TTAAGATAT TAAAGATTT AAAATATAT ATGATGATA CAAATCTAG  
82901 TGTGTGCTA GATTTGGGCT ATGATGATA GTTTCTGAT CTTTGAATA  
82951 AGAATATAT GAGGCTGAA GTTCAATTT ATGCTGATA TAAATATGG  
83001 AATAATATGA TATTTCTTT AACAGCTGA AATTATATA TAAATTTTAA  
83051 AGAAGGATA TATTTTATTT AAAATGAGT TTTGATATTT TTGGAATAG  
83101 ACCCAAGCTA AATGAAATTT TAGAGATAAA ACATTATATT CCAAGTAT  
83151 ATCTTCTTC CATGGGCTG TTAGGCTATG CTTGAGTCT CAGAGGCTT  
83201 TCAATTTCT GTTTATTTT CTTTGTCTT TAGGCTACT TGTAGGAAA  
83251 ACTTAAGAG TTTGATGCT ATTTAAGTG AGAAGCTAG TCAATATAAG  
83301 GCTTTTATGA CTTTCTATAA GTGTTATCT TTAGATAGT TCAATATAAG  
83351 CACTTCAAAA TATTATAGT GCTCTAGTG TTTGATATA TATTTCTGA  
83401 GAGATGCTT GTTGAATATA GATTTCTTA ATCAAGCTG GCTCTATAA  
83451 ATCTTTTCT AATTTCTAA CTATCTTCT CACAATAA GCTATGAGG  
83501 TTTATCTAT TCAATCTCA ACTAAGTAG ATGCTAGCT CAGAGTTGA  
83551 TCAATCTCA AAAAAAGC AATGCTGCT GGCCTATCT TCAAGAGCT  
83601 GATCTGAT AAAAAAGC AATGCTGCT GGCCTATCT TCAAGAGCT  
83651 AGTACATAT CAGAGAGCT GTTGTGCTG AAGGAGAAAT GAGTGTGAA  
83701 GGGGAGTAA TATTTCTAG TATCTCTCT GATTTCTCT TCAAGAGCT  
83751 AGTTATTTA CTTTATATA AGTTTTTCT TTTGCTAG AGTCTTTT  
83801 TCAATATAT TTTAGAGAT TATCTAGT CAGCTGAGT CAAATGATA  
83851 ATTCTATGA CTTTCTAGT GTGATGCTG GATCTGAT TCTGTGCTAA  
83901 AAGTCTGAG GTTGTGAGT CATTAGTCT AGTTATTTT AATCTCTCT  
83951 GTGCTGAGT ATCTCTGCT CTATATTCT CTTATTTCT GATTTCTAG  
84001 TACTGATAG ATCTCTGCT CTATATTCT CTTATTTCT GATTTCTAG  
84051 GAGATATAG CTTTCTGCT TCAAGAGCT CCAAGATTT TCAAGAGCT  
84101 GCTTTCTTT CAAAGCTCT TTTCTAGTA GCAATTTCT TGCATATTT  
84151 AATTTCTCT GCTTCTAGT TCAAGCTCT CTTATTTCT GTTGTGCTAG  
84201 CAAAGAGCT GATGCTGCT CTTATTTCT CTTATTTCT GATTTCTAG  
84251 CTTTCTGCT CAAAGCTCT CTTATTTCT CTTATTTCT GATTTCTAG  
84301 TTTATATGA AAAAAAGC ATCTGATGA GATCTCTCA AAAAAAGC  
84351 CCAAAATAGT GATCTCTCA AAAAAAGC ATCTGATGA GATCTCTCA  
84401 GTTAAAGT GATCTCTCA AAAAAAGC ATCTGATGA GATCTCTCA  
84451 CCAAGATAG TATTTCTCT GCTCTAGT AATCTCTCT TATTTCTAT  
84501 AGAAGAGCT CTTTCTGCT TTTTCTGCT TATTTCTCT TATTTCTAT  
84551 GTTCTCTAG GATCTCTCA AAAAAAGC ATCTGATGA GATCTCTCA  
84601 CAAATCTCT TCAAGCTCT AAAAAAGC ATCTGATGA GATCTCTCA  
84651 TCAATTTCT CTTTCTGCT AAAAAAGC ATCTGATGA GATCTCTCA  
84701 AATTTCTCT ATCTGATGA TCTGATAT GTTCTCTCA AAAAAAGC  
84751 TTTTCTAT TATTTCTCT AAAAAAGC ATCTGATGA GATCTCTCA  
84801 GATCTCTAT TATTTCTCT AAAAAAGC ATCTGATGA GATCTCTCA  
84851 GATCTCTAT TATTTCTCT AAAAAAGC ATCTGATGA GATCTCTCA  
84901 AGAATTTA CTTTCTGCT AAAAAAGC ATCTGATGA GATCTCTCA  
84951 TTTTCTAT TATTTCTCT AAAAAAGC ATCTGATGA GATCTCTCA  
85001 CTTTCTGCT AAAAAAGC ATCTGATGA GATCTCTCA AAAAAAGC  
85051 TTTTCTAT TATTTCTCT AAAAAAGC ATCTGATGA GATCTCTCA  
85101 ATCTGATGA AAAAAAGC ATCTGATGA GATCTCTCA AAAAAAGC  
85151 GCTCTCTCA AAAAAAGC ATCTGATGA GATCTCTCA AAAAAAGC

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85001 CTGCTGAGTCT ATAACGGAAG CATCCAAAGT ATAACTCTGG TGATTAGGGG  
85051 AAGAAAGAGT GAGCTAGCTG GCAAGGGGCG TAAAAATCAA GTCCCTTCTT  
85101 TCTAGAGCTA GAGTAACTCA CAATTAACAA GCTGGCTTAA AATAAAAACA  
85151 TTCAAAGAA AGTBAFSTGG AGAGAGGCAA CAGAGTGATA AGTAAATGGG  
85201 GTTGGAAAT GGAGAGCTTG AAATTCGAAT TTAGGACTCT TATTGGTA  
85251 GTTAAATAT TGAAGATAG TTATTAATC TATTAAGAGC TCAATTAAT  
85301 CATAAGAG GGCTTATTA TASTAATAC TTAGAGAT TATTATTATA  
85351 TGAAGAGAG GAGCTTGGTA AGTGTGAGA TATAATTT ATTTATGCT  
85401 TCTTTCTCT GTTATTATTA ATAGTAACAA CAATAAATAT CTTTCTCTTT  
85451 ATTTCTTTA ASGTCTTAAST GGTGGTAAZ TGAATTAGAG TGGCTAGAGA  
85501 TATAAGAG GGCTTTCTT TTTAATAATC ATTATCTTT TCAAGAGAA  
85551 TAGAAAAAT ATAGGCTTT TTTAAGCTT AATCAAAAA ASTCTTATA  
85601 GCTTCTCTCT TAAAAAGAG AGAGAGGAG GAAAGGAGG AAGAGATAG  
85651 TCTATTCTA CTTAAAGCTA ATTAGAGAG TAATTTTAGG TAAGAGTCT  
85701 ATGAGCTGAT TTTTGAATTA TTTAAGTATT ATTATCTCT TGAATAGAA  
85751 ATCTTGAAG TGTCTTATTG ATTATCTCTT GGTAGATGA AAGGCTAAG  
85801 AGCTTAGTA AATAAAATTT TTCTCTGAGG CAAAGCAAGG GAGAGTAAAT  
85851 ATAGAGAGAA TTATTATAAT AAAGATGGGA GTGAGAGAG AAGCTGGGG  
85901 TCTAGCTCTT TCAGATAGCT GAGCTTGAAC AAATCTTTT CCTATCTTG  
85951 GCTTCTCTT CCTCATCGGA ACAAGCTAGG GCATCTCTA GATACTCTT  
86001 AAGGCTCTT TCAGCTTGA CAACTATGA GATTTCTAGC TGTAATAAT  
86051 TGAAGAGAG ATTAAGAGGG AGAGACACCC AGAAGAGAG AATGCTTTG  
86101 TACTTCTCT AAATGCTGA CTGATAAAAA AGAGAGAGAA CTCTAAAAAT  
86151 CCACTAATTC AAATTAATG GATAATCTT GTTGATTTG AGCTAGAT  
86201 CTCAGCTTC TAAATAGAA GAAAGCTCCA TTTGATCTG CAATCTCT  
86251 TCTCTCTCT TCTAGCTCA GTAGCTCTAA GCAAGAGCT TCACTGAAA  
86301 TGAAGAGAGA AAGAGAGAGA GAGAGAGAGA GAGAGAGAGA GCTGTTAAA  
86351 AAAAGAGAG CAATATACTT GGATGAATTA AAGAGCTCT CTCTAGAAA  
86401 CCTCTAATG TCAATCTCT AGCTCTTAA GCTTTCTG GCTGTTTT  
86451 GCTCTCTAAC TGAATCAAA TTAGGTAATC TTATCTAGG AATGAGTAA  
86501 CTTCTAGCT GTTCTCTTT GGCATCTTTA GGAAGAGAG AAGCTAGGA  
86551 ATCTAGAGA CCACTAATTC GCACTCTAG GTTTTGAAG TTCTCTCTG  
86601 AAAATTTAG AGCTCTAAA GCTCTGAAA AATCTTAA CTCTATGAG  
86651 AGCTAGAGC TTTCTTCAA AACTCTATG GCTCTAAT CAGATATGA  
86701 AACTAAGAG GGAAGAGGG CTTCTCAGA GTCAGCTCT TCTCTAGGA  
86751 AACTAGAG TGAAGCTAC AACTAGACTA CAACTCTAT GATCTAAT  
86801 TCACTAATC CAATCTCT GCTGCTCTT CCACTATG GATCTAAT  
86851 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
86901 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
86951 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87001 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87051 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87101 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87151 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87201 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87251 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87301 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87351 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87401 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87451 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87501 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87551 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87601 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87651 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87701 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87751 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87801 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87851 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87901 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
87951 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88001 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88051 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88101 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88151 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88201 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88251 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88301 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88351 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88401 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88451 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88501 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88551 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88601 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88651 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88701 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88751 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88801 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
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88901 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
88951 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89001 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89051 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89101 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89151 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89201 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89251 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89301 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89351 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89401 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89451 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89501 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89551 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89601 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89651 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89701 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89751 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89801 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89851 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89901 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89951 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT  
89991 TCTCTAAT TCTCTAAT GCTCTCTT CCACTATG GATCTAAT

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91301 GAAATTTTGA TTAGAGAG GAGCATGGA GTGATGAGA GTTACTGTGT  
91351 GTTGGTCAGG TTATGATG TATGTGTATT CAGAGAGGA TTTGGTACT  
91401 TTAAGAGAG TGGTAAAG GAGGTGTGTG ATTGAGAGT TGAAGGTGTG  
91451 AATATTGTA TATGAGAG GAGGAGATGG GTTATAGAT TGAAGAGGA  
91501 TTTATGAGA GTTGTGTG AAAGATGTGT CAGAGAGGA CTTTATGAA  
91551 AATAGAGAG TATTTTAT ATTATATAG AATGAGAGG GTTATGAG  
91601 CAGATGA TTGAAATG GATGAGAGG GTTGTACT GTTGTGTGT  
91651 TGTGTAT GTGATGTAT GAGAAATCAT CATTGTAT ACTAAGACAT  
91701 TATGTATGT ATTATATG AGAGCAATGG TGAAGAGT ATAAAGATAT  
91751 TTTATGAA ATGATGAT TCAATGAAG GTTAAAGAT TATGTGTG  
91801 TTAAGATGA AATAGATGA CTTATGCTA GTTATGAG ATTATATAT  
91851 GATTGTAT GATAGATGA ATGAAATGT GTAAATAG GTGATGTGA  
91901 GTTGTAT GTTATGTG AGGTGTGTG CTTATGAT CAGAGAGT  
91951 GTTGTAT GTTATGTG AGGTGTGTG CTTATGAT CAGAGAGT  
92001 TGTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92051 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92101 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92151 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92201 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92251 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92301 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92351 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92401 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92451 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92501 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92551 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92601 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92651 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92701 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92751 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92801 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92851 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92901 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
92951 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
93001 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
93051 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
93101 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
93151 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
93201 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
93251 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
93301 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
93351 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
93401 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
93451 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
93501 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
93551 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
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93651 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
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93751 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
93801 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
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93951 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94001 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94051 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94101 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94151 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94201 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94251 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94301 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94351 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94401 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94451 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94501 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94551 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94601 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94651 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94701 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94751 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94801 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94851 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94901 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
94951 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
95001 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
95051 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
95101 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
95151 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
95201 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
95251 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
95301 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
95351 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
95401 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
95451 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
95501 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
95551 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
95601 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
95651 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
95701 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
95751 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA  
95801 GTTAAAGGT TGTATGTG TAGAGGTAT TATTAAGTA CTTATGAA

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99401 CTGCTTAAT GGATAATGCG ACTCTGAGA AAATTACCAA GGGGAGAAAG  
 99451 ACATCTGCT GGGGGAGCT CTAAATCTT ATTGACATA ATCAGGAAAC  
 99501 CTATGAAAT AGTCAATTT ATAATAAT CTATCTCT AAAAATAG  
 99551 AAAATTTAA TATATTAAT GGAAGAAAT TATCTCTT CAATTGAAAA  
 99601 GACATGATA AATATTCTT AATTAATA TTTATTTT TGCCAGGATA  
 99651 GTGAAAGATA TTTGCTTTG GATCTTAA GAGAAACAA GTAGAAATG  
 99701 ATCTGATA AGGCTTAATA AATATGAG TTTATCTT TGTGTCTAGA  
 99751 TATCTGAG AATCAATTTT TGATCTT CTATATATCT TAGCTCTCCG  
 99801 TTTCTCTA TTTCTCTCA TTTCTCTA AATCTCTT CTAAAGCACT  
 99851 GGTCTCTT TATCTCTAT GATCTCTA TTTCTCTT CTATGCTCTC  
 99901 ATATCTCT TATCTCTAAA AATCTCTT TTTCTCTA TGTCTCTAAT  
 99951 CTATCTCTA AGCTCTCTG TATCTCTA TTTCTCTA TAGCATCTAC  
 100001 TAACTCTTA GCTCTCTCT CTTCTCTA TTTCTCTA TAACATGATG  
 100051 TTAATCTATA GTGATCTAG GATCTCTA TTTCTCTA TGATCTAAT  
 100101 CTCTCTCTT CCACTCTCT CTTCTCTA TTTCTCTA TTTCTCTAAT  
 100151 CTCTCTCTT TATCTCTTA TCTCTCTA TTTCTCTA AGTCTAAGT  
 100201 TTAATCTAGA TAATTAATA AAGCTCTA TTTCTCTA GATCTCTGA  
 100251 AATCTCTAT TAAATATAG TTTCTCTA TTTCTCTA ACTCTCTATC  
 100301 TTTCTCTT ATCTCTAT TCTCTCTA TTTCTCTA TTTCTCTG  
 100351 TTAATCTAA TTTCTCTGA TTTCTCTA TTTCTCTA CTCTCTCTC  
 100401 GATCTCTA TCTCTCTG CTTCTCTA GATCTCTA ATTCTCTT  
 100451 GTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TAACTCTC  
 100501 TTTCTCTA GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 100551 AATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 100601 TTTCTCTA AAACTCTG TTTCTCTA TTTCTCTA TTTCTCTA  
 100651 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 100701 TTTCTCTA AATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 100751 TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 100801 AATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 100851 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 100901 TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 100951 AATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 101001 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 101051 TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 101101 CTCTCTAT TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 101151 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 101201 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 101251 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 101301 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
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 101401 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
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 101601 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 101651 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 101701 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
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 101801 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
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 101951 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102001 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102051 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102101 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102151 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102201 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102251 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102301 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102351 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102401 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102451 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102501 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102551 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102601 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102651 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102701 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102751 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102801 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102851 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA  
 102901 GATCTCTA TTTCTCTA TTTCTCTA TTTCTCTA TTTCTCTA

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102951 CCAACTAGBT CAGATCCTCA TTCACAATA TTCATAATC ATAAATTC  
103001 CCTGATAGC ACTAGBTAC ATCTACACA TAATTATTTA TCTGTATAT  
103051 GCTTTTAC TCAACTGCA GCTTTAGAG GAGATAGGA AAATTTGTTT  
103101 TGTTACTGCT GCAATTCCTA GAACTCAAA TAGATATAG CACCAAGAG  
103151 CACTCATAG AAGTTGGATG AACTAAAGAA GAAATGTTG GTCTAGGAG  
103201 GGGTTGGAG CATAAGAAC ATA TCTAT TTAAGAGCA AAGAGGAT  
103251 TTAAGAAACA CAGAATTGAA TAAAGTAA TTCTCTAGC AAGAATGCA  
103301 CAGAAATCAG AAGTAGGCT AGATTATTA CTAATAACA AGGAAGTAA  
103351 ATAAATTTT GTGATGCAA CATCAAGCA AAGTCAAA CCAAGAATCA  
103401 TCTAAAGAA TAGAAGTAT ATTAAGAAA CATCTTTAA CTGTACCTGG  
103451 AAGAAAGAA AGTGGCTAC CCTTTTAACT GTGTGAGAG GAAAGGAAA  
103501 TGATTGATTT TAAAGGAAA AATATTTGG GCTTTTATC TTTTGGCCCA  
103551 CCTATTTTTT CTTTTCCCA AATAAGCA STGATATTA AAAAGCACA  
103601 AGATTCACA GGGGTTGGG AGAGTATGG CAGTAAAT AACGGCTGAT  
103651 GAAAGATGAT TTAGAAGTT GGTCTTTTC ATAGCAAGAG GCTGTATTC  
103701 TTGAATCTG CAAGCATAG CTTCTTTTT TTCAAGACTC ACAGAAGGTG  
103751 GTAAAGTCA GAGATGCTC CTGAAGTAS TAGATGGCTC TAGATTCAT  
103801 TGAATTTTG CCAAGGGGCT TGAAGGATA GATGAATTT ACTACTTCCA  
103851 GCTTCCTTTA GAGTTAGCAG AGTTCAGGT TTGGAGTCAG GAGACCCAGA  
103901 TTCTAGTCT GTCTGGGGG TGTCTTTTT GTGCTTTTGA GCATATCACT  
103951 TTATCTTTT TATCTCACT TTCTCTCTT GTAAAGGCA GATTTTCTC  
104001 ATCTATCTT GGTAGGACAA GAGATTTT AATTTATTT TTCTCTCTA  
104051 ATAATGATG CATAATTTAC AAAATCAAA GTTATTTAA GTCATAGAG  
104101 AAAATTCAC ATTCTCTTC CTCTTTCTT TCTATTTGG ATTCTAGCTC  
104151 TCATAGGGA TCAATTTAGG CTCTTTTAC TCTTTTCTT GATATTTTAC  
104201 CTTTCTATTT CTCTATTTC CTCTTTCTT TTGGCTCTT ATAACAATA  
104251 CTATAGATG GGTGGTTAA ACAAGAGATG TTTATTTCT AGTTCTGGAG  
104301 GCTGGAAAT ACAAGATCAA TCTGAGGGA ATTGGGCTT TGGCAAGAG  
104351 CTTCTTTCTA GTTACAGAT GGTCACTTC TTCTTTCTA TTGCTGAG  
104401 AGAGAGAGGA GAGACAGAGA GAAATGAGT CTTTTTCTT TCTTAGAGT  
104451 TCATCATGG GCTTCACCT CGTGACCTT TCTAAATCT ATTAAGTGG  
104501 AGAGAGAGG GCTCAGCTT GTATTCAG CACTTTTGG GGGGAGGTG  
104551 GGTGATTCG TCAAGGTCAG GATTTGAGA CCAATCTGC CAAGATGGGA  
104601 AAAGCTCTC TTTACTAAA ATACAAAAA TTAGCTTGC TTGTAACAC  
104651 ATAGCTTAG TCGAGGAC TCGGAGGCT GAGGATGAG AATCACTTA  
104701 GCTGGAAGG TGGAGGATG ACTAAGCTA CATAGGCA CTGGCTCTC  
104751 ACTGGGCA CAGAGTAAA TTCTATCTA AAAAATAAA AAATAATAAT  
104801 AATCTGATT ACCGCTCAAA GACTATCT TCTAATCTA TCCACTAGA  
104851 GATTAGGCT TCAATTTATG AATTTCTGA GGGGCTAAA ACATGGAGT  
104901 CATAGCAAT CCGTTCTCTG ATTTTCAAT TTAGATAT AGTTTCTGAG  
104951 TGTATCTAG CAGATGAGA ATATTAAAT AATTTCTG ATTTAGCTTA  
105001 TGTATCTAA ATAAATCTT TCAAGGAA GCAAAATAG AACTTTAA  
105051 AATTTCTG TTTCTCTTT ATTTCTTTT GTTTCTTTG TTGCTTCTT  
105101 GCTTTCTTA TTTTATCTG CATATTTAT CATTAAGTCA GATCCAAAT  
105151 TTCTGAGAA ACCACAGAT TCTCTCTAGT TCAATCTAG AGTGAGAGAT  
105201 CATCTCTAG TCTCTCTGTT TCTCTAGAG CTTCTCTCT GAGGCTCTAT  
105251 TCTCTCTAG CTTCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
105301 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
105351 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
105401 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
105451 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
105501 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
105551 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
105601 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
105651 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
105701 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
105751 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
105801 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
105851 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
105901 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
105951 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
106001 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
106051 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
106101 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
106151 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
106201 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
106251 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
106301 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
106351 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
106401 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT  
106451 TCTCTCTAG AATCTCTCTG TCTCTCTCT GAGGCTCTAT AGGCTCTAT

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106501 ACTTCCTCTT CACAGATGCT TATTTCAGCT TTCTTCAGCT TGCTAAGTCA  
106551 GTTACCTTCA TCCAGCTCTC ATCTTTAGA TGTGTACTT CCTTGTCTT  
106601 CTCTTCCTCT TTTTAASTTT CT TTTTATC TGTATATTCA CAGGTATCTT  
106651 ATTATTTTGT TGTATTTTAT GTTACTTTGG GGTAGATASC AAAATAAGC  
106701 ATGTATGTTT CACATCCACT SCATCAGACA CAGTGTGTGT AAAGTGTAT  
106751 TTTTAAATAA AATTTTATT GTA TTTTAG ATTACAGAA AATTACAAAG  
106801 GTTATTTTCA AGAGTTTCCA AATACCTTGT GGTCCATTTT TCTTCTTAT  
106851 GATTAAATAT TTACATTAGT GTATTTTATT TGTACAGTT AATGAATTA  
106901 TATTAATATC AATATATTAT TATTAATTA CACTAAATAC TGTCTTATG  
106951 AGTTTCTTGG AAGAATTA CTAATTTTGG AGATAGAGT GTTATGTAA AITATTTTA  
107001 AGTTACAGTC TACTCTTTT TATTTCTTCT CATTTTAT TTACATATCT  
107051 ATTATCTGCA CTGGGAAAT TATTTCTTCT CATTTTAT TTACATATCT  
107101 AGTATTTTAT TTATATCAAT ATTTATTTAA GATATTTAT TTTATCTTT  
107151 GGTATTAAT TCAATACCAT TTATTTTAT TTATTTTAT CATTTTAA  
107201 TGTTTATTA TTCTAAAGCT TTATTTTAA AGCAAGATAT GAGTTAAAT  
107251 ATATAATATA ATATATATAT AATTAATATA TATAATATA TGAATATAG  
107301 GTTATATCT TACAAATAGT TTTTATGCT TTTACTAAT AATAAGTCT  
107351 TATACATAGA ATGCTGGGCA GTTACATAG ATGGAACAC TAAATCTTC  
107401 TTTGCTTAA TTAGTGTCT TAAATATA TTAGTCTAT TCTAAATTC  
107451 CAGTCTCATG TTTCTATGCA GTTATATAG ATGGAACAC TCTCTCTCA  
107501 GCACTCTAAC CTATTTAGGG AATATATAT ATATAGACAA TAAAAAATA  
107551 AATGCTTCA CAGTCTCAT AATATATAG TTATGCTAT TTATGCTAT  
107601 AAGCTTCA CAGTCTCAT AATATATAG TTATGCTAT TTATGCTAT  
107651 TGTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
107701 GAGCTCTT TATCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
107751 GGAATCTT TATCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
107801 TTTTAAATG TATCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
107851 TTTTCTCT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
107901 GTTTATATAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
107951 ACTGATCTCT ACAGCTCTCT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
108001 ATAGCTCTCT ATTTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
108051 GGTCTCTAT GATCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
108101 ACTCTCTAT CAAGCTCTCT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
108151 TCTCTCTAT GGTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
108201 CAGTCTCT GGTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
108251 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
108301 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
108351 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
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108451 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
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108601 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
108651 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
108701 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
108751 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
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108851 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
108901 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
108951 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
109001 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
109051 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
109101 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
109151 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
109201 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
109251 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
109301 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
109351 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
109401 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
109451 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
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109551 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
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109651 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
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109751 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
109801 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
109851 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
109901 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
109951 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT  
110001 TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT TCTCTCTAT

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113601 GCAGCACTAT TCATATAAT AAAGATTG AACCAGCCCA AATGTCACAT  
113651 AATATAGAC TGATTAA GA AANTGTGGCA CATATAAC ATGCAATAC  
113701 ATGAGGCTT AAAAAATGAT GATTATAT CTTTGTABA GACATGAT  
113751 AATTTTAAA TATATATTCT CATTAACTA TCGCAAGGAC AAAAAATAA  
113801 AATTTTATG TTCTACTTA TATGTGGAA TTGAATATG AGAATATAT  
113851 GACACA GAA GAAATATAT AGATATGGG GCTGTGCTG GGTATGGG  
113901 AGTGGTAA GATAATAT AGCAATATA CTTAATGTA AATCAATAT  
113951 TAATGGCTG AATATATAT CATATCATAT GTATATATAT GTAAATATAT  
114001 TGATATATAT ATATATGAT CTTAATATTT AAGTATATAT AATATATAT  
114051 TAAAGGAAAA TAAATATAA AAGATACAT ATATATATG AATATATAT  
114101 AGATATATAT TTTTATTTT AATATATGCA TTTATATAT SATATATAT  
114151 AAAAAATCAA AATATTTT CCAATATGCA GCTATGCTG CTTATATAT  
114201 GCACTTTAT CTTATATAT CTTAATGCTG TGGTATATG TTTATATAT  
114251 TCTATATAT AGATATGCTG AATATATGCT TCTATATAT TTTATATAT  
114301 CCAATATAT TTTATTTT GATTTTATG AATATATAT GTTATATAT  
114351 TATTTTAT AATATATAT TATATATAT CTTATATAT TTTATATAT  
114401 GTATATAT GCTATATAT TATATATAT AATATATAT AATATATAT  
114451 CTGATATAT TTTATATAT CTTATATAT AATATATAT AATATATAT  
114501 TATATATAT AATATATAT AATATATAT AATATATAT AATATATAT  
114551 TATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
114601 GTATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
114651 CTTATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
114701 TGATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
114751 AGATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
114801 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
114851 GTATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
114901 CTTATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
114951 TATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115001 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115051 CTTATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115101 GATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115151 AGATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115201 TGTATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115251 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115301 TGTATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115351 GTATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115401 CTTATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115451 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115501 CTTATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115551 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115601 CTTATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115651 TATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115701 TATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115751 GATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115801 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115851 TATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115901 GATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
115951 TATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116001 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116051 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116101 CTTATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116151 CTTATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116201 AGATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116251 AGATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116301 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116351 CTTATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116401 CTTATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116451 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116501 AGATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116551 CTTATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116601 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116651 TATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116701 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116751 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116801 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116851 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116901 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
116951 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
117001 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
117051 CTTATATAT TTTATATAT AATATATAT AATATATAT AATATATAT  
117101 AATATATAT TTTATATAT AATATATAT AATATATAT AATATATAT

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117151 CAATTGGGAT TGTAAGTCAT TTTAATTTTA GGCCTCTG GGGGGGTGTA  
117201 GTGATAACTC ATTGTGATT TAAATTGTAT TTCTCTGAT TATTTGTAG  
117251 TTTTAACTCC ATTTCATCTG CTTATTGAAA TGCTGATAG CTTTTTTAAG  
117301 TGATAAGACT TAATACTTT TTTAAAAAT GATTTTAGST ATTCTAANTG  
117351 TGAGCTTTCA GTAAAAATG TATCTTGA AAATATCTCTT CTTTTCATA  
117401 GTTGTGATTT TCACTCTCTT AATCTATCT CTCTCTCTG AGGACAGAAA  
117451 CTTTAACTTT GAATGAGTC CAATTTATTA GTTTCTCTT TATGATGCT  
117501 TTTATATTTT GTTGAAGAA AGTTTCTTA CCGTGAGATC AGGAATATAT  
117551 TCTCTATAT TAACTTTTGG TGCTCTATG TTTTCTCAT TAAATTAATG  
117601 ATCAATCTG TAACTATTT TATTTATCT ATAGTATAGG GGTCTAAT  
117651 CAATTTCTCT ACATAGATAT CAGCTCTCTA CATATTTTA TGAAGAAAT  
117701 CAGCTCTCT CCACTAAT TCACTGCTAT CTTGCTCTA AATCAAGTCA  
117751 CCAAGTATCT CTCTCTCTG TCTCTCTCT TCTTTCTCT TCACTCTCT  
117801 TCTTTATTT TCAAGTATCT AGATTTAAAC TGAGCTTTT TATCTGGAAC  
117851 AGGAAGCTTT TCTCTTTT CAAAATGCT TTGCTATTA TTAGACTTT  
117901 ACATTTACAT ACAAATTTTA GAAGCACTAT GTCATATTC AATAAAGCT  
117951 TAAAGAAAT CTAAATGGA TATAATTTAA TTACATCAH TTCTGGAGAG  
118001 TTGATATCTT TAAATATTT AGCTTTAAA TCCAGAGCA TAGTATATG  
118051 CTTCAATTT TAAAGATCTT TTTATTTT TCTAGTAAIA TTTTGTAGTT  
118101 TCTAGTACAG ATCTTTTCTT ASATTTATTT TCTAGTAT TCACTTTT  
118151 TGATATTTA AAAAGCTCT TTAAGATAT ATCTCATAT TGTCTGCTG  
118201 TGCTAAATGG AATACTAAT GATTAATTT ATATTGATTT TATCTCTCT  
118251 GACCTTGCTA AATCTCTTT TCTCTACTT TTTCTCTCT GTGATAGAG  
118301 TCACTGCTAT TATCTCTAT GAGAGTATTA TTTTCTCTT GCAACTTGA  
118351 CCATAATATC TCTCTATTA GTTCTCTAGT ACTTTAAGAT GTTCTCTATC  
118401 CTGATATTA AATAAAGAG TATCTCTAT TTTCTTTCT TACAATCTG  
118451 TCTCTCAAT TCTCTCTAG GTTATGCTA CCTCAGGAGG AAAATAAGG  
118501 AGCTCTCTCT CTTCTCTCT TTTAAAGAA TGATATAAG ATATCAAGAA  
118551 AGATATATAT ATATATATAT ATATATATAT AATCAGCTT TCTTTATCA  
118601 CTCTCTGAT GATCTCTAT TGCTCTCTT TCACTTTT GCAATTTAA  
118651 ATCTCTCTCT TATACTCT ATCTCTCTCT ATCTTTTCA TATATGAT  
118701 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT ATATCTCT  
118751 GCTCTCTCT TCTCTCTCT GCTCTCTCT TCTCTCTCT ATATCTCT  
118801 GCTCTCTCT GCTCTCTCT ATCTCTCT TCTCTCTCT ATCTCTCT  
118851 CTTCTCTCT TCTCTCTCT CTTCTCTCT ATCTCTCT TCTCTCTCT  
118901 TCTCTCTCT TCTCTCTCT TCTCTCTCT GATCTCTCT TCTCTCTCT  
118951 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
119001 AAGATAGACT TAACTCTCT ATCTCTCT TCTCTCTCT TCTCTCTCT  
119051 AATCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
119101 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
119151 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
119201 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
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119401 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
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119701 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
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119801 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
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120001 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
120051 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
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120201 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
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120451 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
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120551 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
120601 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
120651 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT

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124251 TCAATTITAGT ATTTTACCCA SCATTITGCTG CAAATTTT ST AGGATACCCA  
124301 GGCACACATA GGCATACAG CAGTAAGTTC TGAAGGAGAG AGGAGTATTT  
124351 AGGATTATATA AGTSTTTTGA SAGITGAGAG AGGTTTGTAT TGGGCTTCAT  
124401 AAATTCCTAA ATTTTAGGCT CAGTCAGTTC GAAAAAATAA AAPGAAATTT  
124451 GGGTTTGAAG AAATCTATT TATTTTTSAT TTTTCTGAG TGGTGTCTTT  
124501 CTCTTGATTT GATCTTAA TATTAAGGCA AGAAGTCTC AAGTTCTTT  
124551 GGGTCTTGA AATCTGAGG CAATTGCTAT TCTTGAATG GATCTTTT  
124601 GGAATTAAGT TCTTTTCTT TTCTCTCTCT CCAATAAAAA TTTTCTTT  
124651 AGGGGCTACT TTTCAGTGA CTCTTTTCT AAGTAATCT TTTTGAATTT  
124701 CCAATTAAGT TCTCTTGAAG GGAATACATG AAGTAATCT TTTTGAATTT  
124751 TTTAATTTCT CAAACACAGG TTCTAGCTAG GATTAATCT AGATGCTTTT  
124801 TTTATTTGAG TAATCTATTA TTTAAGTAAA ATTTTGAATG CAGTATCTTT  
124851 TGGGCTCTCT ATCTATTTGA STCTATAGT CTTATTTCTT TCTCATGCTT  
124901 TGGGCTCTCT CCAATCTAGT GAATATACAA ATCTTCTCT AAGTCTGCA  
124951 CATCTAACA CAAATACATG TAATAGGTAC TGGGTTCTA TCTGAGTTGA  
125001 ATATTGAAGA TTTTATTTCT AGGTTCTATG TCTCTATCTA AGTTTTAGGC  
125051 GCTTCTTTCT TCTTTCTCTA CTCTCTCTCT TCTCTCTTT TTTTCTCTTT  
125101 CTCTCTCTCT TTTATAGTCT ATTAAGTCTG TGGGAAAGTA AITGCTGATT  
125151 TGGGCTCTCT TTTAATCTGA AAGTCTATG GCTTTTCTCT CAACTTAACT  
125201 CTCTCTCTCT AAAGGCTCTT TTTTCTTTT TCTCTCTCT CCAATAGGAT  
125251 TGATATTTCT CAGGCTTAAA GGGGCTCTAG AAGGCTATTT ACATATCTCT  
125301 TTTATTTTAG TTTGAGAAAA TCAACAGGCT AAGGCTATTT ACATATCTCT  
125351 TTTATTTTAG TTTGAGAAAA TTTGAGAAAA ATTCTATCT CAGGCTCTCT  
125401 ATCTAGGCTT GCAAGGCTCT GAGGCTCTCT GCTCTCTCT CAGGCTCTCT  
125451 ATCTAGGCTT TCAATCTCT CTTCTCTCT CAGGCTCTCT CAGGCTCTCT  
125501 CAGGCTCTCT TATCTCTCT CTTCTCTCT TCAATCTCT CAGGCTCTCT  
125551 GCTCTCTCT TTTTCTCT ATAGGCTCT AATCTCTCT CAGGCTCTCT  
125601 CTTCTCTCT ATTTCTCT TCTCTCTCT AATCTCTCT CAGGCTCTCT  
125651 ACATCTCTCT AATCTCTCT GAGGCTCT CTTCTCTCT CAGGCTCTCT  
125701 TTTCTCTCT TAATTTCT TTTCTCTCT TATTTCTCT TTTCTCTCT  
125751 CTTCTCTCT TCAAGGCTA GGGCTCTCT AAGGCTCT CAGGCTCTCT  
125801 GGGCTCTCT TTTCTCTCT AGTCTCTCT AATCTCTCT CAGGCTCTCT  
125851 GTGCTCTCT TTTCTCTCT TAAAGTCTA GTATCTCT CAGGCTCTCT  
125901 AATCTCTCT TCTCTCTCT GTCTCTCT ATTTCTCT CAGGCTCTCT  
125951 ATTTCTCTCT TCAAGGCTA ATCTCTCT TTTCTCTCT TTTCTCTCT  
126001 GCTCTCTCT ATAAAGGCTA TTTCTCTCT AATCTCTCT CAGGCTCTCT  
126051 CTGCTCTCT GAGGCTCT TTTCTCTCT AAGGCTCT CAGGCTCTCT  
126101 GAGGCTCTCT CAGGCTCT CTCTCTCT TAAAGTCT AATCTCTCT  
126151 ATCTCTCTCT TAATCTCT ATATCTCT ATCTCTCT AATCTCTCT  
126201 AATCTCTCT TTTCTCTCT GATCTCTCT TTTCTCTCT AATCTCTCT  
126251 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
126301 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
126351 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
126401 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
126451 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
126501 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
126551 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
126601 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
126651 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
126701 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
126751 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
126801 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
126851 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
126901 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
126951 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
127001 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
127051 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
127101 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
127151 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
127201 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
127251 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
127301 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
127351 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
127401 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
127451 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
127501 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
127551 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
127601 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
127651 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
127701 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT  
127751 AATCTCTCT AATCTCTCT TTTCTCTCT AATCTCTCT CAGGCTCTCT

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134901 AAGGAACTTT AGAGCTCAAT BECATCAGTA GGGGCTTATT ATATETTAGT  
134951 AAAAGTAGCA AGTAGGAGG TAGGATGGAG CATTCATTA AAAAGAGAAAT  
135001 AAAATTTTCT CTCAAAAGAG AAGCACTAA TTAAGTTTA AGTGAAAAA  
135051 AAAACAAAG AGGAATTTCT TTACTAAAG GACTAAATTT AAAAATTTCT  
135101 AAGTTAATTT TATTITTAAT TTTTACCTCT TTAGTCTTA TCAACATGGA  
135151 GGAGTTAAT AGGAGAAAT ATTTGTTTGG AAATAAGTGG ATCTATATCT  
135201 ATTAGTTAG TTATAGG GGAAGGAGAA ACTTAAGTTT TAAATGAGCA  
135251 CCAAGAAAT ATGATTGAA CATGCATAAT GGCTATTTT TTGAATAGTT  
135301 GGTAAAGTAT ATCAATCAGA AGCAITAAGA AGATGATCT TTAAGGCAAT  
135351 GATTAATAA PATTAAGGCT GTTAGGCTCT TTAAGGCTCT TTAAGGCAAT  
135401 TAAATAGTA GTTAGGCTCT TTAAGGCTCT TTAAGGCTCT TTAAGGCAAT  
135451 CAATTAATTT TTAAGGCTCT TTAAGGCTCT TTAAGGCTCT TTAAGGCAAT  
135501 AAATGCTCT ATGATGAGAA AGGAGAAAGAA ATGATAGT TCAAGTTAGT  
135551 CAGTCTTCT AAATGCTCT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
135601 TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
135651 TCTAGGAAAT TAACAGATAT TTTTAAATAA CTGATGATTT GGGTATATAA  
135701 AAAAGAGAG ATGATGAGTT CAAAAGTCTT AAGGTAAGAG CTATTTGAGT  
135751 TCTAGGAAAT TCAATGAGTT AAGGTAAGAG AAGGTAAGAG CTATTTGAGT  
135801 AAGGTAAGAG AAGGTAAGAG AAGGTAAGAG AAGGTAAGAG CTATTTGAGT  
135851 CTGATGATTT GGGTATATAA GGGTATATAA GGGTATATAA CTATTTGAGT  
135901 AAGGTAAGAG AAGGTAAGAG AAGGTAAGAG AAGGTAAGAG CTATTTGAGT  
135951 CAGTCTTCT AAATGCTCT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136001 ATGATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136051 TAATTTGAGT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136101 ATGATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136151 TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136201 GTGATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136251 TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136301 CATAAGAGAA ATGATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136351 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136401 TGTAAATGAG AAGGTAAGAG AAGGTAAGAG AAGGTAAGAG CTATTTGAGT  
136451 TTTAATGAGT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136501 ATTAGGAGAA GGTAGGAAAT AAGGTAAGAG AAGGTAAGAG CTATTTGAGT  
136551 TATAAGATTT ATGATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136601 CCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136651 CCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136701 TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136751 TGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136801 TGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136851 CCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136901 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
136951 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137001 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137051 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137101 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137151 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137201 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137251 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137301 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137351 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137401 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137451 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137501 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137551 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137601 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137651 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137701 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137751 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137801 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137851 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137901 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
137951 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
138001 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
138051 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
138101 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
138151 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
138201 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
138251 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
138301 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
138351 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT  
138401 GGTAGGAAAT TCAATGAGTT TCAATGAGTT TCAATGAGTT TCAATGAGTT

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149101 TCTTCAGGGT TGASTTCCTT AATGGATST AAATCTCTTT TCCIGGGAG  
149151 AAAAGGCTGA GAGATTTGG TCTTGATGT GGAATACATT AAGGCTESTG  
149201 GCGTTTGAAT GCGATTTAA GAGACAGCT CTCATTCTCA GTTGCGCTAA  
149251 GCTAAAGAG AGTATTAAG TTGAGTGAAG TGAGGCAAG GGGAGTATTA  
149301 GGTATTTCTT AGAGTTTGG AGGTATAGT GGTAAATGAA TTATAGGAA  
149351 TATTAAGTAA ATATAGGAG TCTGATTT TCTGATTT CTATCTAGCT  
149401 GTTATGAGT TATGATTT TATATTAGCA GAAATATAG GATTTGAGA  
149451 GGTCTCTCTT TCAAGGAGG TTAATCTCA ATTTCAGGAG AAAAGGATA  
149501 AATATACAAA AATTTATTTG ATATATGAAA ATAAATATAT GATTTATTT  
149551 AGTAAAGAA ATATATGAA AATATATGG GTCAATTTAG TATTCAGAA  
149601 TTAATAAGG TAAATGATTT GATTTATTT ATTATTTCT ATATTATTT  
149651 ATGATTAAGA ATATTGTTA GTTATTATGG GAAATTTGA AAGGATATG  
149701 AATATATATA TAAGTTTAT GAGGCTAAG GCAATCATGG TTTATTTAA  
149751 CATCTTATTC GAGATGTTT AGGCTATAGA GGAAGAGAA GAGTATGAT  
149801 AATATATAGT CTATTATTTA TACTGAGTGT TATATGTTAT GTAGTCTTA  
149851 AATATTTTCT GATATTTAT GAGGCTTTA ACATGATTTT GGGTATAT  
149901 TTATGAAAGA CTGATATCAG ACATTTAGTA GAGATCTGTT GGTTCGATAT  
149951 GGTAGGAGT CATCTCTCT CTGTTGAGAG CAGCTTAATT TCTCTGCTG  
150001 TGATGCTTTA GTAAGGTTGA TAGTTGTTCT GCTTCCTTGG ACCGAGGCTG  
150051 GGTATGAGT CAAGCAAGAG TAATTTTGA CTGTGTAAGG AGTATCTATA  
150101 AATGCTGGA GCAATGTTGA GAGCTAAGG AGATCTTTA TGAATCTCTG  
150151 AATATATAGT TTATGAGCT GTTGAATTT CTGCTCTATA TGAAGCTTT  
150201 TTTATATGAG GGTCTCTCA TATCTTTGA AAATTTCTTT CTATATATTT  
150251 AATAGAGTAA AATTAATAAA GATATGTTT TAGATAAAAA ATTGATAGAA  
150301 GATATATAT TTTATGTTA TTTAAAGAT GGTGAGGAG TTTATTTTA  
150351 TATATGAGT TATGAGGTT TAAGGCTCTT TATGAGGAG ATGATTTTG  
150401 AATATATAGT TTAAGAGATG GAAAGGATTT GAAAGATCT TTAAGAGAG  
150451 AATATAGGAG GATGAGGCT TGTGAGGCT GAGGAGGAG TATGAGGTA  
150501 GGTGAGGAG CTAGGCTGA GAAAGAGT GAAAGAGG AGTCTCTCTG  
150551 TGAAGGAG TGAAGTCT GAGGATCTA TGTGTGTCT GGTATGAGT  
150601 TTAAGGAGT TGTCTCTTT GATATTTT AGCTTATCTT ACTGATCTAG  
150651 AATAGGTTT GGTCTCTTT TGTCTCTCT ATGAGGAGT GGTGAGTAT  
150701 GATATTTAG AGAGGAGAG TTTTGTGAGA CAGGCTAGGA CTGAGGCTT  
150751 TAGGCTAAG TATGCTAGA GGTCTCTAGG CAGGATGCT ACATGAGG  
150801 TGAGGATAG CTATGAGAG CTGATTTTA CTGAGAGAG TATGATCT  
150851 GTTCTCTCT AGTCTCTCT CTATCTTTT GGTCTCTCT GGTATCTCT  
150901 TGTCTCTCT GGTCTCTCT TGTCTCTCT CTGATCTCT GTTCTCTCT  
150951 GTTCTCTCT GGTCTCTCT TGTCTCTCT TGTCTCTCT GGTCTCTCT  
151001 GTTCTCTCT GGTCTCTCT TGTCTCTCT TGTCTCTCT GGTCTCTCT  
151051 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151101 AATATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151151 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151201 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151251 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151301 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151351 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151401 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151451 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151501 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151551 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151601 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151651 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151701 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151751 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151801 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151851 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151901 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
151951 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
152001 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
152051 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
152101 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
152151 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
152201 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
152251 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
152301 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
152351 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
152401 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
152451 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
152501 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
152551 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT  
152601 TATGATAGT GATGATAGT CTGATAGT CTGATAGT TATGATAGT

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152651 AGTCTCTTA TTGATACATA CTTTTSATCT GCTTCTCTTA AAATGAACT  
152701 GTCCTCTTA TTGATACATA GCTATTTACA ATGAGGCTCT CAATTTCTCA  
152751 GGGATCTTA TTGATACATA ATGCTGGCTT GAGAGGCTTT AAATGAACTG  
152801 ACAAATAAAA AGGATTTTAT AATGTCAGGA GTTCTCTCTT TGGGAGATAG  
152851 CTGCTCTTA TTGATACATA GGTCTGGGAA TTTATTTGTA CTAACTGCTAT  
152901 GGTCTCTTA TTGATACATA TTATCAAGAA GGTCTGATG AGGAGAGAT  
152951 AGAATTTTAT AGGATTTTAT ATCAAGTCTG TGGCTTTCTT TGCTCTCTAT  
153001 GGTCTCTTA TTGATACATA GGTCTGATG AATTTCTCTG CTGCTTTTCT  
153051 AGTCTCTTA TTGATACATA AGGCTCTCTT ACAGATTTCT TTGAGGATAG  
153101 GGTCTCTTA TTGATACATA CTGCTCTCTT TCTCTCTCTT TTCTCTCTAT  
153151 CTGCTCTTA TTGATACATA TCTCTCTCTT TCTCTCTCTT TTCTCTCTAT  
153201 TTGATCTTA TTGATACATA TCTCTCTCTT TCTCTCTCTT TTCTCTCTAT  
153251 TATCTCTTA TTGATACATA GGTCTCTCTT CTGCTCTCTT TTCTCTCTAT  
153301 TCTCTCTTA TTGATACATA GGTCTCTCTT CTGCTCTCTT TTCTCTCTAT  
153351 ATGCTCTTA TTGATACATA CTATCTCTCTT CTATCTCTCTT TTCTCTCTAT  
153401 ATGCTCTTA TTGATACATA AAAGTCTCTT GGTCTCTCTT GGTCTCTCTT  
153451 TGTCTCTTA TTGATACATA TGTCTCTCTT AAAGTCTCTT GGTCTCTCTT  
153501 GGTCTCTTA TTGATACATA ATAGATCTCT CAAAGATCTT GGTCTCTCTT  
153551 GTATCTTA TTGATACATA AGAGGATCTT AGAGGATCTT AGAGGATCTT  
153601 TTTCTCTTA TTGATACATA ATAGATCTT ATAGATCTT AGAGGATCTT  
153651 CTGCTCTTA TTGATACATA TGTCTCTCTT GAGAGGATTT TTCTCTCTAT  
153701 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
153751 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
153801 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
153851 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
153901 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
153951 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154001 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154051 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154101 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154151 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154201 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154251 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154301 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154351 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154401 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154451 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154501 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154551 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154601 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154651 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154701 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154751 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154801 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154851 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154901 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
154951 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155001 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155051 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155101 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155151 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155201 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155251 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155301 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155351 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155401 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155451 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155501 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155551 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155601 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155651 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155701 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155751 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155801 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155851 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155901 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
155951 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
156001 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
156051 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
156101 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT  
156151 GGTCTCTTA TTGATACATA GGTCTCTCTT GGTCTCTCTT TTCTCTCTAT

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163301 GGGGCGASTC AGGGATTGGA ATTGCATTTT TCATTCAGG CAGGATAAGA  
163311 TAAATAGTTAA GAGTAGAGAT AAAACAGAGT TGATAGGCTT TCAAAATCCCA  
163401 GGTGTATATAT TTAATGGGTT TGTATATTTT AATA-GTTTT TAAATTTTCT  
163451 AGATATCAAG TTCTTGATCT GTAAATAG GATATATATC ATAAATATAG  
163501 CCAATTTTAA AGGCTCTCTG TGAGATTTAA AAGATATCAT ATATGTAAAG  
163551 CACTTAGAAG AGGCTCTCTG CATAATAG TGGATCAA ATATATTTG  
163601 CTAATTTTAT TATTCCTAGT GGTATATAG AGATATTTT TTAGTACTTT  
163651 TGTATTTTAT GCATAAATGA ATATTTTAT AAGATATCAA TGAAGGCTCT  
163701 TGTATATTA AATGATATTA AAGATATCAT AAGATATCAA ATATATTTG  
163751 TGATATTAAG AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
163801 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
163851 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
163901 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
163951 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164001 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164051 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164101 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164151 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164201 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164251 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164301 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164351 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164401 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164451 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164501 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164551 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164601 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164651 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164701 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164751 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164801 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164851 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164901 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
164951 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165001 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165051 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165101 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165151 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165201 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165251 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165301 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165351 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165401 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165451 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165501 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165551 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165601 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165651 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165701 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165751 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165801 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165851 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165901 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
165951 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
166001 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
166051 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
166101 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
166151 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
166201 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
166251 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
166301 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
166351 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
166401 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
166451 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
166501 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
166551 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
166601 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
166651 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
166701 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
166751 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG  
166801 TGTATATTA AATGATATTA AAGATATCAA AAGATATCAA ATATATTTG

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177501 AAGACAGGAT TTATGTGTTT CTCTTAAAA CTCTTTTCTT GA'ACTTCTT  
177551 ATTTATGA'CT TGTTTAA'AA TAGACTA'AC AAAAAA'CTA ATAAGAA'AC  
177601 CTCTTTGATG TATAGAA'AA AAG TTAGGG TGAGTGTGA CA'GATTGAA  
177651 ATTTATAAAA AATATATAG AAGTTGAA'AA GAAACTTTT GTTCTT'AT  
177701 TCTTTCACAT GTATTGA'AA TTAGGCTGA TCCAGSTAT GCTGTGTAG  
177751 GTTCTGTAGG TAAATATAG TCTTTT'AA GAGGTATAG TCTATA'GG  
177801 AATATGA'AA TCTTTT'AA AATTTAAAG AAAAA'CTAG GAGAGCTA  
177851 GACAGATAGG AATAAGT'AA TCTTTGTTG AATTTTAAAG TATTA'GTA  
177901 CATTAAT'AA TATAAGT'AA ATCTCTGAT CACATGAAAG GTTATATAT  
177951 TCTTTTCTT AAAAAAT'AT TCTTTT'AA GAGTGTGA TTTAG'AA  
178001 GACATAAAT AATATAGCT TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178051 TCTTTT'AA AAAAAAT'AT TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178101 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178151 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178201 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178251 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178301 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178351 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178401 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178451 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178501 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178551 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178601 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178651 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178701 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178751 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178801 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178851 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178901 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
178951 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179001 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179051 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179101 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179151 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179201 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179251 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179301 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179351 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179401 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179451 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179501 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179551 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179601 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179651 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179701 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179751 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179801 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179851 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179901 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
179951 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180001 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180051 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180101 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180151 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180201 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180251 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180301 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180351 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180401 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180451 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180501 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180551 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180601 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180651 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180701 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180751 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180801 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180851 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180901 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
180951 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA  
181001 TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA TCTTTT'AA

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181051 GGATGATATC TAAGATACAT TAGAGCTATC TGAGGATGSA TTTTATTTT  
181101 TTAATAGCTT TAAATAATCA ATATATTAC ATGATAAAAC AGATATTACA  
181151 GAAGCTATA ANGTAAGA TAAATGCA TTCTTCCAA TTCTATACCT  
181201 CATAAATA ACATTTTAA ACCTTTTC TGCAATTGCT TATTTAATGG  
181251 TTTCTTATC ACTTCTAAT CATATATTTA TGTTTCTTT TCTTGTCTTA  
181301 TCATTTTAA CTTATATTC GACTTCTAT TAGAAATAT ACAAAATCA  
181351 TCATATTCA CTTATATTC GACTTCTAT TAGAAATAT ACAAAATCA  
181401 TATTATTTGG AATCTTTGG ATGATTTAT TGTATTTT ACATAGTGA  
181451 CATTATTT TGATTTTCA TATTAAT TTGTCATAA TAGAGATAT  
181501 CATTATTT TGATTTTCA TATTAAT TTGTCATAA TAGAGATAT  
181551 TTTAAAGATG CTTAAAGGTA TTCTGATAT TCTCTAGAA CCACTTCTG  
181601 AATATTTA GTTATTTAT CATTTTCT GATTTAATA ATAGAGTAG  
181651 AATAGATAT CTTCTTATC GATTTATAG TCACATATG GCAATGTGA  
181701 AATGATAT AATGATATC AATGATATC AATGATATC AATGATATC  
181751 CTTAAAGATG CTTAAAGGTA TTCTGATAT TCTCTAGAA CCACTTCTG  
181801 CTTAAAGATG AATGATATC AATGATATC AATGATATC AATGATATC  
181851 TGTATTTA CTTCTTATC TGTATTTA CTTCTTATC TGTATTTA  
181901 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
181951 TAGTAAAT ATATAGATG ATCTCTCTG CATTCTGGA CATGTTGTAA  
182001 ATAGGCAAGG TGGTCAAGG AATAGTATG TCAAAATCTG TAGTTAAAT  
182051 TTTAATAGA ATATAATTAG CAATATAGTA TTTTATATA ATACTATATA  
182101 ATTAATAGA CAAATAAAGC ATATAAAGAA AATGTTCTA ATTAACAAAT  
182151 ATTACCTT AAGTTTCTT TTAATAAAT GCAAAAGAA ATTAACAAAT  
182201 TATTATTTA AATTTATTT AATGATATC CCAAGGGA CAGATGAT  
182251 CATTGATTT TTTGATATA CTTGATATA AAGATTTAAT ACCTTTATTT  
182301 CTTGATATA CTTGATATA CTTGATATA CTTGATATA CTTGATATA  
182351 TGTATTTA CTTCTTATC TGTATTTA CTTCTTATC TGTATTTA  
182401 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
182451 GGAAGGGA TGTATTTA TATATGATG TATATGATG TATATGATG  
182501 TATTATTTA TTTTCTTCT TTTATTTAAT ATATAGATA TGAGTTGTT  
182551 TTTATTTCT CTTCTTATC TTTCTTATG GGGGATGAGG GTTCTGTTG  
182601 GATGATTT TATTTGATC ATATGATAT AAGGTTTGG TGTATTTA  
182651 TTTTCTGAG AATTTCTCT CCAAGATTT AGTCTATTT ATGTTGATG  
182701 GTTAAAGAA TTTGATTT TTTTCTGAG TGTATTTA TGTATTTA  
182751 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
182801 GATTTGATC TGTATTTA TGTATTTA TGTATTTA TGTATTTA  
182851 TATGATATC TGTATTTA TGTATTTA TGTATTTA TGTATTTA  
182901 CTTCTTATC TGTATTTA TGTATTTA TGTATTTA TGTATTTA  
182951 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
183001 CTTCTTATC TGTATTTA TGTATTTA TGTATTTA TGTATTTA  
183051 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
183101 CTTCTTATC TGTATTTA TGTATTTA TGTATTTA TGTATTTA  
183151 CTTCTTATC TGTATTTA TGTATTTA TGTATTTA TGTATTTA  
183201 GATTTGATC TGTATTTA TGTATTTA TGTATTTA TGTATTTA  
183251 TATGATATC TGTATTTA TGTATTTA TGTATTTA TGTATTTA  
183301 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
183351 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
183401 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
183451 TGTATTTA TGTATTTA TGTATTTA TGTATTTA TGTATTTA  
183501 GATTTGATC TGTATTTA TGTATTTA TGTATTTA TGTATTTA  
183551 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
183601 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
183651 GATTTGATC TGTATTTA TGTATTTA TGTATTTA TGTATTTA  
183701 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
183751 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
183801 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
183851 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
183901 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
183951 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
184001 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
184051 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
184101 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
184151 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
184201 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
184251 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
184301 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
184351 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
184401 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
184451 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
184501 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC  
184551 AATGATATC AATGATATC AATGATATC AATGATATC AATGATATC

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188151 CCCAAATGAA CCAACATTTT AAAAATTCTA AGATTTCACA CAGAAACCTA  
188201 GAAT CTGCTT TTTT TTTTAA AAATTATAAT TCGATTAAT GAAC AGAG  
188251 TTCAAGGAGG TTAGCATTTGA CTAG ATGCT CAAGTAAAG CACCATCTG  
188301 CTTGAATAT TATGCTTTT ARGGATAACA TTTCTGATTC ACCTATCTCT  
188351 GCGATATGTA TACCATTAAT TTGGTCAAT GTACATCTTC TCCATTAACA  
188401 GAAAGGAGAT TCGAATATC AGGATTAACA TTTCTGCTT TTTAATCTT  
188451 CTTTGATAT TAATCTCTTC GATTCTCTC ACTAGTACA CTCTGCTC  
188501 AACTAGGAGG GGGGAAATC GATCTCTC GCTTCTCTC GCTCTCTC  
188551 GCAAAATTT CATACTCTC GCGGCTTAA TCTGCTCTT TCTTCTCTA  
188601 AACTAGGCT TCTGCTCTC CAAGCTCTC ACCTCTCTC AATCTCTC  
188651 CAGCTAAAG CACCAATCTT TCTCTCTT CATACTCTC TATCTCTC  
188701 TTTGAATAT AATCTCTT AAAATCTCTC TATCTCTC AAAATCTCTC  
188751 AAATCTCTC AGCTCTCTC AATCTCTC TATCTCTC TATCTCTC  
188801 TAGCTATAT TCAAGCTCTT AAAAACTCTC AATCTCTC AATCTCTC  
188851 TCTCTCTCT TAAAGCTCTT ATTTCTCTC TATCTCTC TATCTCTC  
188901 GAGCTCTCT GATTCTCTC CTATCTCTC GAACTCTCT CTTCTCTCT  
188951 ATGAACTCTA ACCATCTCTA TCTCTCTCT GAACTCTCT CTTCTCTCT  
189001 TGATCTCTC GATTCTCTC TTTCTCTCT GAACTCTCT TATCTCTCT  
189051 TGGCTCTCT GAACTCTCT AATCTCTCT AGCTCTCTC ATCTCTCT  
189101 CTTCTCTCT AGCTCTCT TCTCTCTCT TCTCTCTCT TATCTCTCT  
189151 TAAAGCTCTC GATCTCTCT TCTCTCTCT AATCTCTCT AATCTCTCT  
189201 ACAAAGCTCT CTCTCTCTA ATCTCTCTC AATCTCTCT AATCTCTCT  
189251 TCAATCTCT CATACTCTC CTCTCTCTC AATCTCTCT AATCTCTCT  
189301 CTCTCTCTC ATCTCTCTC CTCTCTCTC AATCTCTCT AATCTCTCT  
189351 TCAATCTCT TCTCTCTCT GCTCTCTCT ATCTCTCTC TATCTCTCT  
189401 CAGCTCTCT ATCTCTCTC TCTCTCTCT TCTCTCTCT TATCTCTCT  
189451 GATCTCTCT GATCTCTCT CTCTCTCTC GAACTCTCT GAACTCTCT  
189501 CTTCTCTCT GCTCTCTCT ATCTCTCTC ATCTCTCTC ATCTCTCTC  
189551 AGCTCTCTC GATCTCTCT TCTCTCTCT CTTCTCTCT CTTCTCTCT  
189601 ACAAAGCTCT GCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
189651 CAGCTCTCT TCTCTCTCT CTCTCTCTC GAACTCTCT GAACTCTCT  
189701 TGAGCTCTC ATCTCTCTC AATCTCTCT CTCTCTCTC TCTCTCTCT  
189751 AATCTCTCT CAGCTCTCT CTCTCTCTC CTCTCTCTC TCTCTCTCT  
189801 TGAGCTCTC TCTCTCTCT TCTCTCTCT CTCTCTCTC TCTCTCTCT  
189851 GAGCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
189901 AATCTCTCT AATCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
189951 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190001 AATCTCTCT AATCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190051 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190101 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190151 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190201 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190251 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190301 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190351 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190401 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190451 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190501 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190551 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190601 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190651 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190701 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190751 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190801 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190851 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190901 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
190951 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
191001 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
191051 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
191101 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
191151 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
191201 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
191251 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
191301 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
191351 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
191401 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
191451 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
191501 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
191551 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
191601 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT  
191651 TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT TCTCTCTCT

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206401 GCACATTAATG TTCAACAGCA AATTGAAAG AGGAATATCT TGTAATATAG  
 206451 AAAATTGTTA AGTTCAAGT AGGAAATAG CTAATTAATA TCATTTTTTA  
 206501 GCTTATTAAT AATATGAAAC ATAAATATAG CTAATTAAT TACATGCATT  
 206551 AATTAATATA TTCTTCATAG CAGTATATAG GGTAATTAAG ATTGTTACAT  
 206601 CCAATTATTA ATTAAGGGAC TGAGGAATA AGAATATAG TAATCTGCTC  
 206651 AAATTAATAG TTCTTAATTA GGAAATATA GCTTTAAAT TAATCTGCTC  
 206701 CTAATTAATAG AGAATAATAT CTTCAATAT TTAATCTCT TTTTAAATAA  
 206751 TAATAATAT TAATAATAG TGTCTTATAG AGAATATAG TGCATGTCAA  
 206801 AGGAATTAAT TTCTTTTATA CTAATATAG TSAAATTAAG TAGGAATAT  
 206851 TTAATTAAT TGAATATAG TGAATTAAG AGAAATAA TAATAAGGAA  
 206901 AGGAATTAAG ATAGGAAGAA GGAAATTAAG AAGGAATAT GAATAGGAA  
 206951 AAAATTAATA AGAAGGAAGAA AAGGAATTAAG AAGGAATTAAG AATTAAGGAA  
 207001 CAAATTAATAG GGGAATTAAT ATATTAATAG GAATTTTAT CAGTTTGA  
 207051 TTGAATTAAT TAAATAATAT TAAATTAATAG GTCAATTAAG CTTGGTCT  
 207101 ATATTAATAG ACTAATATAG TATATAATAT AATTTTAT TAAATTAAT  
 207151 AATTTTATAG AATTAATAG TTAATTAATAG TAAATTAATAG AAAATAATCC  
 207201 TAAATTAATAG TAAATTAATAG TAAATTAATAG TAAATTAATAG AAAAGTACTG  
 207251 TGGAATTAAT AAAAATTAAT CAAATTAATAG GGGAATTAAT TTCAATTAAT  
 207301 ATATAATAG AGAATTAAT TAAATTAATAG TTTTATAG AGAAGGCTCC  
 207351 TTGAATTAAT CAAATTAAT CAAATTAATAG AATTAATAG ATAGATTAAT  
 207401 AGAATTAAT AGAATTAAT CAAATTAATAG AATTAATAG CTTCTCTCTC  
 207451 TTAATTAAT CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 207501 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 207551 AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 207601 CAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 207651 GAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 207701 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 207751 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 207801 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 207851 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 207901 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 207951 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 208001 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 208051 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 208101 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 208151 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 208201 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 208251 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 208301 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 208351 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 208401 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 208451 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 208501 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 208551 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 208601 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 208651 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 208701 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 208751 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 208801 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 208851 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 208901 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 208951 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 209001 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 209051 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 209101 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 209151 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 209201 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 209251 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 209301 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG  
 209351 CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG CTTCAATAG  
 209401 TAAATTAATAG AATTTTATAG AATTTTATAG AATTTTATAG AATTTTATAG

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213001 AGGCTGAGGC GGGTGATCA CGAGGTCAGG AGATCTAGAC CATCCTGGCT  
 213051 AACATAGTGA AACCCCATCT CTACTAAGAA TACAAAAAAT TAGCCGGGCA  
 213101 TGGTASTGGG GGCCTGTAGT CCTAGGAATT CGGGAGCTGA GTAGTTAAGG  
 213151 CAGGAGAATG GGTGGAATG GGAGGCGGAG CTTGCAATGA GCCAAGATGG  
 213201 TGNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
 213251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
 213301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
 213351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
 213401 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
 213451 NNNNNNNN  
 (FC ID NO: 3)

# FEATURES:

Start: 2130  
 Exon: 2130-2270  
 Intron: 2271-5227  
 Exon: 5228-5365  
 Intron: 5366-158436  
 Exon: 158437-158676  
 Intron: 158677-161828  
 Exon: 161829-162013  
 Intron: 162014-167214  
 Exon: 167215-167368  
 Intron: 167369-185990  
 Exon: 185991-186152  
 Intron: 186153-188485  
 Exon: 188486-188653  
 Intron: 188654-197717  
 Exon: 197718-197822  
 Intron: 197823-209669  
 Exon: 209670-209780  
 Intron: 209781-210491  
 Exon: 210492-210803  
 Stop: 210804

## SNP

DNA Position	Major	Minor	Domain	Protein Position	Major	Minor
177	T	C	Beyond ORF(5')			
2555	-	T A	Intron			
2624	C	A	Intron			
3182	T	T	Intron			
3183	G	T	Intron			
4290	-	A	Intron			
4320	C	T	Intron			
6289	G	A	Intron			
6811	T	C	Intron			
7871	G	A	Intron			
9814	G	T	Intron			
9849	T	G	Intron			
10370	C	G	Intron			
10351	G	T	Intron			
10444	G	A	Intron			
10461	G	A	Intron			
10885	C	T	Intron			
10848	C	T	Intron			
10847	A	G	Intron			
10842	G	A	Intron			
14103	A	G	Intron			
14123	T	C	Intron			
15160	A	G	Intron			
15457	-	A	Intron			
15736	A	C	Intron			
15914	C	T	Intron			
16657	A	-	Intron			
16658	A	-	Intron			
17099	T	G	Intron			
18139	T	A	Intron			

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19563	C	T	Intron
19561	C	A	Intron
22862	G	A	Intron
23210	A	G	Intron
24040	G	A	Intron
24536	C	A	Intron
25125	-	A T	Intron
25127	C	T	Intron
25483	T	C	Intron
27143	C	T	Intron
27111	T	G	Intron
27463	G	A	Intron
27553	A	T	Intron
29141	C	G	Intron
30549	C	T	Intron
30884	C	T	Intron
31576	A	T	Intron
31425	T	C	Intron
32148	A	G	Intron
33179	T	C	Intron
33102	G	C	Intron
34114	C	T	Intron
34663	A	G	Intron
34877	A	T	Intron
36025	C	T	Intron
36039	C	G	Intron
36061	G	C	Intron
36415	C	T	Intron
36743	A	G	Intron
36958	T	C	Intron
37577	G	A	Intron
38464	C	T	Intron
38472	C	G	Intron
39500	T	G	Intron
39573	T	C	Intron
39724	G	A	Intron
39802	C	T	Intron
39742	G	A	Intron
39879	C	G	Intron
39910	A	G	Intron
39179	T	C	Intron
39414	A	G	Intron
39459	T	G	Intron
39594	C	T	Intron
40279	A	G	Intron
40666	G	C	Intron
40703	G	C	Intron
41090	C	T	Intron
41120	C	T	Intron
41411	A	G	Intron
42740	C	G	Intron
42760	C	G	Intron
43295	C	T	Intron
44416	A	G	Intron
44565	C	T	Intron
44772	A	G	Intron
45507	C	T	Intron
46183	C	T	Intron
47105	G	T	Intron
47845	C	G	Intron
48241	A	G	Intron
48328	T	A	Intron
48341	G	A	Intron
48453	A	G	Intron
48740	T	C	Intron
49100	T	C	Intron
50548	C	A	Intron
51053	G	A	Intron
54708	G	C	Intron
55058	A	G	Intron
55171	C	T	Intron

FIGURE 3, page 62 of 122

55801	G	A	Intron
56324	A	G	Intron
56557	G	A	Intron
56716	T	G	Intron
58247	C	T	Intron
62313	T	C	Intron
62409	C	A	Intron
62449	A	G	Intron
62490	T	A	Intron
62514	G	A	Intron
63643	T	C	Intron
64911	G	A	Intron
64934	T	C	Intron
65150	T	A	Intron
65148	A	G	Intron
65674	A	T	Intron
65700	C	G	Intron
65810	T	C	Intron
65948	T	C	Intron
65978	G	A	Intron
65988	C	T	Intron
66023	G	T	Intron
66332	C	T	Intron
66361	T	G	Intron
67130	G	A	Intron
67143	T	C	Intron
67541	G	T	Intron
67603	G	A	Intron
67670	T	C	Intron
70838	C	T	Intron
70967	T	C	Intron
71175	G	A	Intron
71401	C	A	Intron
71656	C	T	Intron
72409	C	T	Intron
72444	A	G	Intron
72492	A	G	Intron
72851	A	G	Intron
72862	A	C	Intron
72914	G	T	Intron
73466	G	A	Intron
73929	G	A	Intron
73913	G	-	Intron
73996	C	G	Intron
73961	T	C	Intron
75749	T	C	Intron
77275	C	T	Intron
77282	G	A	Intron
81236	T	C	Intron
82536	C	T	Intron
82954	A	C	Intron
84157	G	C	Intron
85443	T	G	Intron
85674	T	C	Intron
85750	G	A	Intron
85735	T	C	Intron
86535	-	G	Intron
87371	C	G	Intron
87392	G	A	Intron
87423	T	C	Intron
87627	T	C	Intron
87637	G	A	Intron
87777	A	G	Intron
87810	C	T	Intron
89612	G	A	Intron
89637	G	A	Intron
89400	G	A	Intron
90359	A	G	Intron
90555	-	T C	Intron
91641	G	C	Intron
93969	G	C	Intron

FIGURE 3, page 63 of 122

96501	A	G	Intron
96565	T	-	Intron
98441	A	G	Intron
100037	T	C	Intron
100264	A	G	Intron
100413	T	C	Intron
102673	C	T	Intron
102907	T	A	Intron
102934	A	G	Intron
104061	C	T	Intron
107052	-	A	Intron
110739	T	C	Intron
110784	T	C	Intron
115075	C	T	Intron
115086	C	T	Intron
121151	G	A	Intron
121150	T	G	Intron
124473	G	T	Intron
124841	C	T	Intron
124842	A	G	Intron
124841	G	A	Intron
124871	C	T	Intron
124873	T	C	Intron
130139	G	C	Intron
130742	C	G	Intron
133531	A	T	Intron
133661	A	G	Intron
133763	G	T	Intron
133837	A	C	Intron
134083	A	G	Intron
134082	C	-	Intron
134520	G	A	Intron
134746	T	C	Intron
135854	G	T	Intron
136893	G	A	Intron
136945	C	A	Intron
137907	-	T	Intron
138348	G	C	Intron
138427	A	-	Intron
140711	C	T	Intron
140670	G	A	Intron
141441	T	C	Intron
141639	C	A	Intron
141796	A	-	Intron
141797	-	C T	Intron
141799	T	-	Intron
142166	G	T	Intron
142211	G	A	Intron
142666	A	T	Intron
142741	T	C	Intron
145347	G	A	Intron
145433	C	T	Intron
145815	A	- G	Intron
146916	G	A	Intron
147128	G	C	Intron
147368	T	C	Intron
149472	G	A	Intron
149486	G	T	Intron
149488	G	A	Intron
149484	C	A	Intron
151121	G	A	Intron
151984	C	T	Intron
151947	A	C	Intron
151960	C	T	Intron
154364	T	C	Intron
155118	G	A	Intron
155247	C	T	Intron
155508	-	G T	Intron
155571	A	G	Intron
155565	G	A	Intron
155505	C	T	Intron

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159736	C	T	Intron
159737	G	A	Intron
160054	-	T A	Intron
160055	-	A T	Intron
160056	G	T	Intron
161115	C	T	Intron
161116	-	T C	Intron
161209	T	C	Exon
162093	T	C	Intron
162094	C	A	Intron
162095	-	A G	Intron
163047	A	C	Intron
163075	G	A	Intron
165362	C	T	Intron
166011	T	C	Intron
166023	G	A	Intron
167461	G	A	Intron
168030	G	A	Intron
169141	T	G	Intron
169379	G	C	Intron
171315	G	T	Intron
171430	A	G	Intron
171607	G	A	Intron
172020	-	T	Intron
172040	T	C	Intron
174002	C	G	Intron
174076	G	A	Intron
174723	G	A	Intron
174844	A	G	Intron
174739	C	T	Intron
174914	G	C	Intron
174926	A	G	Intron
175001	G	T	Intron
180348	A	C	Intron
180459	A	G	Intron
180786	C	T	Intron
181119	A	G	Intron
181213	C	T	Intron
181306	-	T	Intron
181311	C	T	Intron
181372	C	T	Intron
185006	A	G	Intron
185832	A	-	Intron
187087	C	T	Intron
187351	T	-	Intron
187366	C	T	Intron
187392	A	G	Intron
188074	C	T	Intron
188086	A	G	Intron
188083	G	A	Intron
188732	C	T	Intron
188824	T	C	Intron
188899	G	A	Intron
189049	T	C	Intron
189271	A	G	Intron
189311	T	C	Intron
189349	T	A	Intron
189413	C	T	Intron
189418	C	T	Intron
189506	C	A	Intron
189507	A	G	Intron
189514	C	G	Intron
189510	T	G	Intron
189519	A	G	Intron
189576	A	G T	Intron
189725	T	C	Intron
189850	C	T	Intron
189809	G	C	Intron
189814	C	T	Intron
189809	A	G	Intron
203159	G	C	Intron

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FIGURE 3, page 65 of 122





TAGCAG AAGGGACTAAAAATGAGAGAGSTGGTTATATGCTAAGGAGAGSTGGGAGAGT  
AGAGAGCAATATGCTACTACTACTGGGCAAGGTGAGAGTTCTGTGGCTTTCTGTGTT  
CAAGCTCTTTTCTCTCTCTGGCTCTGCAATGTTAAAGATTAAGTCAAGCAAC  
CGAAGCTTTTGCTATCTTTCTTTAAGCACTTTTTCGAAGCTTACAGGTGAGAGTTGGGGA  
GATTCTATAGAGAGAGATATTTACTGATCAGCTAAGAGCTTATTTCTGTCTTTG  
[ 3 ]  
TAACTTAAAGTAAAGCAATAAAGGAATGCTGATTAGATATTAATTAGAGCTCTGA  
GATGATATTTGGAGCTTAATCTTACCTTTTAATTTAATCACTATTATCTATTCTAT  
CATTCAGAGATATATATCTGAATGCTACTCTCTATCTGAGAGAGCTGAGAGCT  
ATATAAGCTGAGGAGAGAGGATGAGCTCTCTCTCTCTGAGTAAAGCTTTAGGCA  
GAGCTTAAAGAACTTAGTGGCACTTAAATTCATAGGAGCTTTTCTTAAAGCAAGACT

T T A G A A T A A C C T C T G C A G A A A T T C T A T A G C A A I I A F T A T G G G A A T T A C A C T T T A A G A A T  
C C T T T T A A A T T A A A A A G T C T T C C A T C C C T T T A G T A A G C A T T T T T G A G C C C T T A A C C A A A G  
C T A G G A A G A C A T A A A T T C T C T A C A A A T G C A G A C A A T A G A A G T T C A T T C C C C A C C T T G G  
A A C A C T T T A I C A T A G T A A G A C A T T T T C T A T C C I G T A A A G A G A A A A T T A A A A T G T A A T G T  
T G T A A T C T A T A G C A G C A A T T T G T A T G G A G T A T T G A A G A T T C C T I G A A G A G T T G G A G T T T  
[7,6]  
T T T T A G G A G C T G T G A T I G A A T T C A G C C T C A A C G A T A A A T A C G T T A T C T A T C T G C A A  
A G G G T A A T A A A T A T A G C A T C C C A A G A G C A G T C C A G T A C A G A C T A G T T T G T T G G C  
C A T A T A T T G T G T A A G A A C C A T G G A A T T T C A C A T T A G A A T T G A C A C T C T I G T T G A C T  
A A A T A T T T A A A T A T A A A A T C T G G C A A C A C T A G G G C A G G I C T A T G C A G C T T C A A T  
T T T T G A A T G G A C A C A A G A A A C C C A T C I A A A G C C T C T T C C A A T A A C C A A T C

TTTCTTCTAGCTACACAAATGCTTTTTCATATTGGCATAAAAATTCAGATTTCTGCACT  
TTAAAAAATAAAATTAGGCGATTAAAGCAACCCTAGGTCACATTCCTGCTTAAGTCTAT  
TTCTAGAGCTAGAAATGCTGCGCTTTTAAATACATAAATTCGCAAGTTACCAAAAGT  
TTCTATTAAGCTCTGTTTGAATGCTAGAGTAATTAATATCTGTTTGGGAGGCGCT  
AAGTATCTATTAATTAAGTACCTGATTTATATGTCAGCAATCTATCTTTATATTT  
(C94)  
TTCTAATAATATCTATTACTTAAGCTGTCAAAAAATAATAAAAGATACAAAAGATGTATAA  
CTCTATCTCTAAAAAAAGTASTGTGTATACAGTAATAGAGAGAAATTTGGCTGATGCTG  
GGATAAATAAAATTAATTTGAAGACCTACTATTCTGCAAAATATTTGGCAGGCTGTCT  
CAATTTTATAATGTGCTTGAAGAGTGATATCTGCTATTCATGATGATGTAAGTGA  
CTAGAGAGAAATGTGCTTCTTTATAATTATGCAACAAATAAAAGCTAAGCTAGTATTTA

TATTAAGCAAGCTAGCGGCCACATCCCTGCTTAACCTTGTATTTCTAGAGCTGAGAACTG  
CTGCTCTTTTAAATAACATAAACTGCCAAGTTAACAAAGCTTGCATTAATCTTCTGTTT  
ATGCTAGCTAATTAATTAATTTATGTTGTTTGGGAGGCTTAAAGTAGGGCAATTTATCTCA  
TATCTGATTTTATGCTGAGGATTCATCATTCTATTATTTGTTTCTAATAATATCTATTA  
CTGAGCTGCTTAAAAATAATAAAAAACAACAAAGATGTAACATCTATCTTAAACAAA  
[1,1]  
TATGCTTATATAGTAAATGAAGAGAAATGCTGGCTGATGCTGGGATAAACAGAAATTTT  
TGAAGAGCTATATGTCGAATATCTTGGAGGTTGTTGCTTAAGTTTATAAGCTGTT  
GAAATGTCATATCTCTATTTCTAGTATGATGCTACTGAGATGAGAGAGATGTTGTTT  
TTTATATTTATCAACCAATAAAAAAGCTAAGTAGTATTTAAAGGCAATTTGGGGGGCTC  
TAAATCTAATGAGCTCTCTCTTTTAAAGATCTATGAATATGGGAGGGCTAGTGGCTC

A TAAAAATTTCATTAACTTCTGTTTGATTSCTAGAGTAATCAAAATTATGTTGTTTGGGC  
 AGTCTCTTAAGTAGGGCAATCTACTCATACTGATTTATATCTCAGCATTTCATCATTT  
 ATTATTTTCTTTTAATAATATCTATTACTTACCCCTCTCAAAAATAATAAAAGACACAAAA  
 GATGTATAACTCTCTACTCTCAAAAAAGTAGTGTGTATACAGTAATGAGGAGATGTGTG  
 CTATGCTGGGATAAACAGCAATTATTTGAAGACCTATTAATGTGCCAATACTTTTGAG  
 TTTAT  
 TATTCTCTTAAGTTTATAACTGTCTTGAAAGGTGATTATCTTCATTTTCATTGATGTGG  
 TATTGTAATCTGAGAGGATCTGTGTCTCTCTTATATTGCAACCAATAAAAACTTAAGCT  
 AGTATTTTAAAGACATTTGGGGGCTCCAAAATTAATGAGCATCTCTCTTTTAAAGATC  
 TATCAATCTCTCTCTGAGGAGTGGTCTGATCTTGCAATCTATATTTTGGAAGGCTGAG  
 GCTGGTAAATATGAGAGCTCAAGAGATTGACACCATCTCTATTAATACAGTGAAGACCTGAT

TTTGATGCTGAAGCAATCAAAATTTATGTTCTTTGGGGCAAGCTTTAAGTAGGCAATCTA  
CTGATATCTTATTTATATGTCAGCATTCATCATTTTTATTTATTTTCTTCAATTAATATCT  
ATTAATTAATCTGATCAAAAATAATAAAGGACACAAAAGATGTATAAATCTCTATCTCAAA  
AAGATTAATCTCTATGATATAAATGAGAGAGAAATGTTGGGATGTTGGGATAAACAAGAAAT  
CTTTCTTGAAGACATATATGTTGGCAAAATATTTGAGGCTTTCTTTTAAAGTTCTTATAACT  
CTTAAAGGCTGATTATCTCCCATTTCTATTGATGATGGAATTAAGACTGAGAGAGATTTGTG  
TTTTCTATATATATCAACCAATCAAAAACTAAAGTATATCAAAAGCAAGTTTGGGG  
GATCTCAAAACTCAATGAGTATTTCTCTTTTAAAGCATATGAAATCTGATGAGGCGAGG  
CTCTCAATTTTAAATCTCAGACTTTTGGAAAGCGGCAAGTTGGGAGACCATGAGTCTCAGGA  
GATTGACACCATCTGGGCTAATACATGAAACCCCATCTCTACTAAAAATACAAAAACTT

CCGCATTTCATTGATGATCGTACTSAGATGAGAGATATGTGTCTTTTATATTATGCG  
AAGAAATAAAAAACCTAACTAGTATTTTAAAGCCAATTTCAGGGCTTCAAAACTCAATGAG  
GCATTTCCTTTTAAAGATCTATGAATATCGGCAAGGCGATGGCTACACTTGTAAATCG  
CAACAATTGTGAAGGCTTAACTCGGCGAGATCATGAGGTCAGGAGATTCACACCATCTCTGG  
CTAAAGACGTGAAATCTTAACTCACTAAAAATACAAAAATTAAGTTCGGGTGTGGCTA  
(C,T)  
GCAATCTAGTCCATTAATCTTACAGAGGATGAGCAAGAAATTCCTTGAATCTCAGGAG  
CAACAATTCGATTCAGCAAGATACGCTACTGTAATCAAGTGGCAACAGGAGAGAA  
TTTCTCTTAAAAAAGAAAAAAGAAAAAAGAAAAATTAATTAATATGATCAGAGAAAA  
GTATATATCATTAATAGCTACAGGCTGATCTTAAGTGGATTTTATGATTCAG  
CTTAAGGCTAAGTCTTCAAGAGAGAGCTATCACTCTATGATGATGAAATCTCTTGG

ACAAAATAAAAACCTAAAGCTAGTATTTTAAAGCCAGTTTGGGGCTGCAAAAATCAATGAG  
CACTCTTTTTTAAACATCTATGAATATGGCCAGGGGCGAGTGGCTACACTTGTAAATCC  
CACTTTTGGAAAGGCGAGGTGGCCAGATCATGAGGTAGGAGATTGACACCATCTGGG  
TAATACATTAACACCTCATTTTATGATAAAATACAAAAACTTAGCTGGGGCTGGTGGGAC  
GGAATCTGTATCTCCAGCTACTTACGAGGGCTGAGGCAAGSACAATTCTTTGAAATCAGGAGG  
(3, 1)  
AAGATTTGATTGAGGCAAGATCAGCCACTGCACCTCAACCTTGGCAACAGAGCGAGAAT  
TTCTCTTAAAAAATAAAAAAATAAAAAAATAAAAACTATGAATATGGACAGAGAAAAAG  
TCTATATACGACCAAAATAGCCAAAGCTAGAGATTATGATGGAATTTATGATTCAGGC  
TTAAGAGCTTAAGTTTCAAGGCAAGATCTAGCTGTGATGATGAAAACTTTTGGGG  
AAGCTGAAACTTTAGCAAGCACTAAAGGGTGGAGCAATTTGGTTTGGAGTGGGAGAA

CAAAATAAAGACTTAAGCTAGTATTATTTAAAGCCAGCTTTTGGGGCTTAAAACTCAATGAGG  
ATTCTCTTTTAAAGATCTATCAATATGGCCAGGGGAAAGGGCCACACTTGTATATCCCA  
GACTTTTGGAGGCGGAGCTGGGAGATCATJAGGTAGGAGATTGACACCATCTCGGT  
AATAAGTAAAGGCTATCTCTACTAAATAACAAAAATTAGATGGGCTGCTGGCATG  
CACTCTAGTCCAGATATCTAGGAGGCTGAGGCGGAGAAATTCCTTGAATCCAGGAGGC  
(A, 1)  
GAGCTGTATGAGGCCAAGATCAGGCCACTGCACTTGAAGCTGGCAACAGAGCGGAGAAAT  
TGTCTCAAAAAAAGAAAAAAGAAAAAAGAACTCATGAATATATGACAGAGAAAAGT  
AGCTAGTAGTGAATAGGCGAAGGATAGAGCTGTACACTGGAATCTATTGATTCAGGT  
TAGAGCTAAGCTTTTCAAGGAGAGGCTATGACTGTGGATGATGAAAAGTTCTTGGGGA  
AGCTGGAATTAGTAGGATTAAGGGTGCAGGCAGATTTTGGTTCTGAGTGGGAGGAG

ATGTA GTTCTTTACTCTTAGCTTCCCATCAAGTCTCCACACAGTATAGTCTTTCAGTGGT  
 TATA CATCAATTAAGAAATAATGGTAGTACACAAGAAATAAGCTTCAATCATTTCTGTGTTA  
 GCTTAATCTTTTTCATATATGAGCTTTTACAGATTTCAAATAGCTCTGCTGCAAACTAT  
 ATGATGCTATATATCTCTTAGCTCTCAAGGTTATGGGCTGAAAAATCAGGTCTAAGTTA  
 ATGAAAATGATTTTACGTTCCCTGCACTATTCTATGAGAGGCTCTAAATACAGGATAT  
 [G/A]  
 AGGTTCTATTTTAAATAAAGAAITTTCTGATTAAAGCTCTGGGTTGCCATTGATGTAT  
 GAGCTTCTATCTATCTTACAGCTTTCTGTGTCTAGCTCTGCTCCGACGAAGCAGG  
 GCAATCTAGGCTCATGACAGGTTGAGTTGAGGAGGACAGCAAAACTGGGGCAAAATGAGG  
 CAGCTTGAGCTTAAATCAAAATGATACCTATGGTTAGCTGCTTCCATGCTGCTCATCT  
 TTGAAATCTTAGGATCAAAAATAAAGTTTGAGAAATAGCTTACGTTTGTCTCAAAAAGTA

CCGCTGGAGCTATTCTCATGACGGGGTCCGTAATAAGGTATAAGSTTCGACTTTCTTAATAATA  
AGGATTTCTGAGCTAAAGCTCTGGGTTTGGCATTGATGTATGAGGCTGTGTATGATCTCTTAC  
GACTTTGGCTCTCTGACGGTGGCTGTGTCAGAAAGTACAGTGGAGTCTCAGGGGCCATGGGAG  
GTCTAGCTTTGAGGAGGGAGGCTCAAAAGCTGGGGCAATGAGGAGCTTTGGAGGCTAATGAAAT  
TGATGCTGATGCTTAGGGCTGTCTTCGATGCTGTTCACTTTCTTGAACTCTTAGGATGAAA  
(14/1)

TAGAGTTTGAAGATAAGCTTTAGTTTGTCTCAAAAAGTAATATATAGATTACAGAAAGCT  
ATGAGAAAGAGAGAGAGCAAAAGCAATAAAGAACTTATAATTTATAGTACTAAGGATACATT  
TTGATTTCTTTGAGAGCAGCAAGTAATTTAAAGATTAATGATTTATCTTACTGCTCTTA  
AGATATTTCTTTAGATATAGAACTTTAGGCTAGCTTTTATTATTGAGATTCATTTTTA  
ATGTTTATAGAAAGTCACTTACATATGTAAGCTTAATTTATTTAAGCTGTCTGCTTTT

CTTAATAAATAATATAAGGTTTATTTTCTAAATAAAGAATTTCTATTCTAAGGCTGTGGT  
 TTTCTATTCATATATAAGTTTGTATGTCATCTTAATAATTCTGTCTGTCTCCAGGCTTTGT  
 TCTTAATAATATAGAGAGAGCTTAGGGGCTATGGAGAGCTCACTTTAGAGGAGGAGGAAAA  
 CTCTCTTAATAATAATATATTTGGAGCTAATGAAATTAATAGCTATGCTGTCTGTCTTT  
 CATTCTTTCTATCTTTGGAAAGCTTTAGGATTAATAATAAGTTTATAGATACTCTTAGT  
 TTTCTT  
 CTTCTAATAAACTAATATATAATTACAGAAAGCTATAGGAAGAGAGACAGTAATAATAA  
 TAAATTTTATATAATATACTAAGGAGATACATTTCTGCTTTTTTAAGCTATATAAA  
 TTTAACAATTAATATTTATATATCTCTTATATAAGATTTTTTTGCTATATTATAATCT  
 TTTATCTCATCTTTATTATTGACATTCATTTTTTAATTTTTCATAAAAGCCCACTGTAC

ATATGTACCTAATTTATTTAAGCTTCTCTCTTTTATGGATATCTAGTTTATTTCCCTT

15560 TCAATCCAGCAATGGCAAGCTTCACTTCCAGCTACAACTCCAGTGGAAAGGAACT  
TCTTTTCTTATAGTTCCAAAGAGCTTGGGCTGATCTTATGGATAAACTTASG  
ACAATGCTTATTTCTGAATATGAACAGTGGCCAGGATATGTAATCTTTTGGCTTACA  
TGGCTTATTTAAATCATCTATTTAAGCTTGGGCTAGTGAAGAAAGCTTAAAGATTGT  
GGATTAAAGCTAAGCCAAAGAACTATAGGACATGGGGAGGAAATATTTCTTCAAGG  
(A, C)  
AATAGGATGCTTATTAAGAAAGAAATGGATTTAATGCTTGGAGGCAAAATAGATATA  
TATATATATTTTCTCTATTAASATATATATATAATACCTATCTATATAGATGTAAA  
TGGCTTATTTCTTATTTTATGATTTATTTAAATAAATACTTTACTCTCTATATA  
TATATCTATATATATATATATATTTCTTATTTTCAAGAAAGAAATTTAG  
ATAAGCTGGAATGAGGCAATAGAGCAAAAGTCAATCTTAAAGTCAGAAAGCTAG

15657 GATGTCTATGGATAAAGCTTAAAGCAATGCTTATTTCTGAATATGACACAGTGGCTAGG  
ATATGTAGTCTTTTGGCTTCACTGGGCTAGTGAAGATCATTTTATAGAGCTTGGGT  
AGTGAGCAAGAAAGCAAGATTTGATTTAAGGCACTCCAGCAAAAGCATAGGATATGG  
GGAGCAATTAATTTCTTCAAGGCAATCAGGATCTTATTAGCAAAAGAAATGGAGATTGA  
TCTTGGAGAGGCAAAATAGATATATATATATTTTGTCTATTAAGCATATATATATAT  
(-, A)  
CACTATCTATATATAGATTAATGATTTTATTTCTATTTTATGATTTTATTGTAAATA  
AATAGATTTTCTTCTCTATATATATTTCTATCTATATAGATGTGGCCATTGCACTA  
TCTTTTCAAGAAAGAAAGATTTAGACAGGCTTGAAGTGAAGCAATTCAGACAAAGCTCA  
CATGCTAAGCTTCAAGAAAGCTTAAATGAGATTAAGCAATCAAGGATTTCTGTGGTA  
AGCTAAGATTAAGGCTCAAGGCAAGGCAAGGCTTCAAGATTCAGGCTTCTGATTAATCA

15736 GATATGGGCTTATGAAATCATCTATTTTATAGAGCTTGGGCTAGTGAAGAAAGCAAGAA  
TTGTGATTTTAAAGCCAGGCTTCAAGCAATACGGGATCTGGGGAGGAAATTTCTCTCA  
AAGGGCAATCAGGATGCTATTAAGCAAGAAATGGAGATTTGAATGCTTGGAGGCAAAATAG  
ATATATATATATATTTTGTCTATTAAGCATATATATATATACACTATCTATATATAGAT  
GTAAATGCTATTTATTTCTATTTTATGATTTTATTTGTAATAAATACATTTACTCTCT  
(A, C)  
TATATATATTTCTATCTATATATATATATTTCTCTTCTTCTTCTTCTTCTTCTTCTTCT  
TCAAGACAGGCTGGAGCTGAACTAATTCAGACAAAGTCAACATCTTAAAGTCAGAAAGAG  
CCAGCAATGAGACAAAGCATATCAAGGATTTCTGTGGTGGGTAAGTCAAGATCAGAAAGTCA  
GAGAGTAAAGGCTGGAAGTTCAAGGCTTCTGAGTAAATCAAGGCTGTAGGGCTTTTGG  
TAATCTTGTCTAGGCAAGGCAAGGCAAGGCTTCTTCTAGAGAAAGTTAGAAAGTGTATACCA

15914 AATATATATATATATTTTCTTATTAAGCATATATATATATACACTATCTATATATAG  
ATGTAATTTATTTTATTTCTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTT  
CTATATATATATTTCTATCTATATATAGATTTCTCTCTTCTTCTTCTTCTTCTTCTTCT  
AATTTAGATAGGCTTCAAGCTTCAAGCTTCAAGCTTCAAGCTTCAAGCTTCAAGCTTCAAGCT  
GAGCTTCAAGCTTCAAGCTTCAAGCTTCAAGCTTCAAGCTTCAAGCTTCAAGCTTCAAGCT  
(C, T)  
AAGACAGGCAAGGCTTGAAGTTTCAAGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT  
CTAATCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT  
TATTCAGCTTCAAGCTTCAAGCTTCAAGCTTCAAGCTTCAAGCTTCAAGCTTCAAGCTTCA  
GAGGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT  
TGGGATTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT

16657 ATGAAGGAGGCTTAAAGCTTCTTAAAGCAAGCAAGCATCTCAAGCTGGCTCTCTCTCAAG  
GCAAGCAGGCTAGTATGCTCTTTAATAGCTCATGGATTACAGGGGACTGATATCTCT  
AAGATTAACACTGATGAGGCAAGCAATTAATGATTGAAAGTGCTTTAGCTACAAAGG  
TCAAGTGAATTTGGGGAGGCTGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT  
TGGTACATGAGATTATTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT  
(A, C)  
ATATAACTTCTGCTTATTAATGCTCAATTTGGTCTATTTGATGCTCTGSCAACTTAG  
ATATTAGTACATACTTTAAAGCAGATTTATGAGAAAGCAATGCTTCAAGCAAGCTTCTTCT  
CTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT  
TCT  
ATCT  
ATCT

16658 TGAAGGAGGCTTAAAGCTTCTTAAAGCAAGCAAGCATCTCAAGCTGGCTCTCTCTCAAG  
GCAAGCAGGCTAGTATGCTCTTTAATAGCTCATGGATTACAGGGGACTGATATCTCT  
AAGATTAACACTGATGAGGCAAGCAATTAATGATTGAAAGTGCTTTAGCTACAAAGG  
TCAAGTGAATTTGGGGAGGCTGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT  
TGGTACATGAGATTATTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT  
(A, C)  
TATTAATTTCTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT  
TATTAATGATATCTTTGAAGCAATTAATGATGAAGCAATGCTTCAAGCAAGCTTCTTCT  
TCT  
TCT

FIGURE 3, page 70 of 122



24040

24536

25125

25167

25623

27143

FIGURE 3, page 72 of 122



CATAGATTAAATAGAGGTCTACCATATCTAAGCTAGAGTGGTGGCTCACAATTAATCC  
CAGCACTTTGGGAGATCAAGGTAGAGTATAGGTGAGGAGATTGAGATATCTGG  
CTAAAGGGTGAAGCTCTGTCTTACTAAAAATACAAAAATCAGCCTGAGTGGTGG  
GGGGTCTAATCTGAGCTCTGAGAGGCTAAAGGAGAGAAATCACTTAAATCTAG

27211

TTCTCAGTACAAAATAATGACAAATATCTAGAGTATGAAIAGGTTAATGAGTTATTT  
GTTCTATCTAATAATGATATCTTATCAAAAGATCAGACTCTAGACAGAAIAGATATT  
AATTGTAATTAATAATAATTTCTTAAAAAGTATATTTCTTGGTGAATCTAATAGT  
CTCTGAGGTGAGTATAGTCTCTTTTAACTAATTTGGTCCAGTTTATCTGCTCTG  
AATAAGATTAAGTCTTCAAAATCTAATAATGACAAACAGATGAAAGTCTAATGAT  
(T, T)  
AATAGAGGTATGATATCTAGCTCTGAGTCTGAGCTCAGACTGTAATCTAAGCTTT  
TGGGAGGCTAAGGTGGGGGATATGAGTCAAGAGATTGAGATGATCTTCTAATAGG  
GTGAAAATCTGCTCTTACTAAAAATACAAAAATCAGCTGAGTGGTGGGGGGCTG  
TAATCTGAGTCTCAGAGGCTTAAAGGAGAGATCACTTGAACCTGAGGCTAAGAT  
TTCACTGAGGCAAGATCAGACTGATCTTCAAGCTGGGCAAGCTGAGCTCTCTCT

27383

CCACATCTCTCTGGGCTAGGGTATATCTCTTTTAAACAGATTGTTGTCAGCTTAGTC  
CGCTCTTCAATAAGCAATTAAGTGTCTGAGGGGTGGTCAATGAGCAAAACAGATGAGGGTT  
GATAGATTAAATAGAAATCTATCATATTTAGGCTGGGAGTGGTGGCTCAGACTGTAATC  
CAGCACTTTGGAGGCTAAGGTGGGGGATCATGAGTCCAGGAGATTGAGAGCACTCTG  
CTTAAAGCTCTGAGAGCTGAGCTCTTAAATAATACAAAAATCAGCTGAGCTGGTGGT  
(G, A)  
GGGCTCTGTAAGGAGCTCTGAGAGGCTAAGGAGGAGAAATCACTTAACTGAGCA  
GAGAGATTTCAGTGGGAGGATCAGAGCTGAGCTCTGAGCTGGGAGAGGAGTGG  
AGTCTCTTCAAAAAATAAAAAATAAGAAATCTAATCATCTAATTTTCAAGCATAAATA  
TGATAATCTATTTCTTAAATTTCTTATGGGAAATAAAGTCTTTATAAATCTGAGTGG  
CAGAGATCTCTTGGAGCTGAGGGCTAAAAAGAAATCTCTCTCTATTTCTATCTGCTA

27553

ACTTCTAATCCAGCACTTTGGAGGCTAAGGTGGGGGATCATGAGTGGGAGATTGA  
GATCATCTCTGTAATAGCTGTAAGGTGTAAGGTCTCTACTAAAAATACAAAAATCAAGCTG  
AGCTCTGAGGGGGGGGGTCTGTAATCTGAGCTCTCAGAGGCTAAGGAGAGAAATCACTT  
GAAGCTGAGAGGAGAGATTTGAGTGGGAGGATCAGAGCTGTAATCTGAGCTGGG  
AATGAGTGGAGATCTCTCTCTAAAAATAAAAAATAAGAAATCTAATCATATCTATCTCT  
(A, T)  
GGTATAAATATGATAAATATTCTTTTAAATTTCTGATGATGATAAATAATCTTTATAAG  
ATCTAGTTCTGAGACTGATGCTTGAAGCTTGAAGGCTAAAAAGAAATCTGAGATTTCT  
CTATGCTTAACTGATCAATCTGATTTGATCTCAGAGTACCTTTTGGGAGAGAGAG  
TAACTGATAATCTGATTTAACTGAACAAAGGCTCAGAGAAAGATTAAGTGGATCTAA  
AAATGAGAGATCTTCTAATTTCTAAAAATAAAGTGAATTTGAGTCTCTATAGATCTG

29141

AAGTAACTGAGGAGCTCTTATAAAGAGATCTAGCTGGAGATCTCTTACTAAGTGA  
CAGAAATCTCTCTCTCTCTCTCTGAGAGCTCAGATCTAGTTCTAGCAGAAATCTCT  
GAGTCTGATTAATAAATAATATTTTGAATCTCAGAGCTTTTCTAAAAAAATCTCTAGC  
ATAAGCTCTATCTCTCTCAGAGTCTGATCTTTCTCTATATCTATATTAAGCTCTTAAG  
CTCTCTCTCTCTCTCTCTCTCAGAGATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT  
(G, G)  
TATTGAGCTGAAATTTCTATCTCTCTCTCTTAAAGTAAATCTAGACTCTCTCTCTCTCT  
CAAGGCT  
TGAATTTGAGCTTTCTAGGCT  
CT  
TCACTATTCTAGCT

30549

TGGGAGCTCTCTTAGAAATCTAGTTCAAGGCTAGGACCGGTGGCTTACCTCTTAATCTC  
AGCACTTTGGAGGGCCAGCT  
TAACT  
GTAATCTAGTCTAGCT  
GTAATCT  
(G, T)  
CATCT  
TGAATCT  
TCT  
ATACT  
CT

30984

CAAAATCT  
TAACT  
TCT  
ATACT  
CT  
(G, T)

31266

31425

32198

33129

33292

34124

FIGURE 3, page 74 of 122

34668

34807

36025

36058

36061

36418

FIGURE 3, page 75 of 122



[14, 15]

34

2000 11 15

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2. TIT

1. 2. 3. 4.

1. 2.

1771

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— 234 —

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315

[A, 31]

ATTN:

39179

170

TTCT

39424

13.5

T.T.

39459

13

AGT

39594

10

**Figure 1**

40279

13

GI

40666

GTCTTTTATTCTAGTCACTTCTGCTTCCACAATAAGAGGCTATCTGTCTTTGGTTTCAGGG  
GGTGAATTACTGTCTTATATTGCTGATAGGGCTSTCCCTTGAGGAATATCTTTTCCCAA  
TGATAGTCTTTGTAGAGGGGCGAGAGTCCAGAACTTAAGCTAACTAATGATTATCTTT  
TCCAAAGAAATTAAGAGGAGCTTCAAACTCTGGCTTCTCTTAAGGGAATCAGATTC  
[3.7]  
ATCTTTGGTCCAGAACACATCTTAAGCTCTGAGTTCAGGCTTTATGAGAGCACTCTTCA  
ATCTTATGAGAGCTCAATCTAGTCTTAAATACTTGGTCAAAAGTGGAGTTGAACTTAA  
AACTATACAGGCTCTGAGATTAAGCTTCTCTTATGAGCTTCAAACTATCTATGAT  
GCACTTAAGAAATCTCTGAGATTTCTTTTGAATCAACAATAAGCAAAGATCAATTAAG  
CTAAAGTTGAGGCTAACTTAAGCTTCAAGAGAGAGAACTGAGGATTTCAAGATTTGG  
40723 GGTCTCTTTATTCTAGTCACTTCTGCTTCCACAATAAGAGGCTATCTGTCTTTGGTTTCAGGG  
GGTGAATTACTGTCTTATATTGCTGATAGGGCTSTCCCTTGAGGAATATCTTTTCCCAA  
TGATAGTCTTTGTAGAGGGGCGAGAGTCCAGAACTTAAGCTAACTAATGATTATCTTT  
TCTTGAAGAGAACTTAAGAGAGGAGCTTCAAGCTCTGGCTTCTCTTAAGGGAATCAG  
TCAAGATCTTTTCCAGAGAACTTCAAGCTCTGAGTTCAGGCTTTAGATGAGGAGCT  
[6.1]  
TCAATTTCTATGGGAGCTTCAAGCTCTCAAACTTCTGGTCAAAAGGCTGAGTTGAACT  
TAAAGAGCTTACAGGCTCTGGAGAGTATAAGTTGGTCTTATCAGATGAGGATTTATGA  
TGAATCTTATTAAGATCTTCTGAGAGTTGGTTTCTGAGAGAGATTAAGGAGAGATTAAG  
AGCTTAAAGCTTGAAGGCAATTCAACTTCAAGATGAGAGAGAGCTTCAAGGATGAGAG  
TCAAGCTTCAAGAGAGCTTCAAGTATGAGGCTTATAAGCTTCTGAGGCTTATTTGTAAGT  
41090 AGTACAGAGCTCTGAGAGTATAAGCTTGGCTCTCATCAGATGAGGATTTCTATGAGCA  
TATAAAATCTTCTGAGAGCTTGGTTTCTGATGAGAGATTAAGGAGAGATTAAGAGCTTA  
AAAGTTGAGGAGCTTCAAGCTTCAAGATGAGAGAGAGCTTCAAGGATTTGAGAGCTTGA  
CTTAAAGAGGCTTCAAGTATGAGGCTTATAAGCTTCTGAGGCTTATTTCTAAGTGAAT  
CTTGGGCTTAAATGAGATCTTCAAGGCTTGGGCTTCAAGGCTTGGGCTTCAAGGCTTGG  
[10.1]  
TCTTTTCTTGGAGGCTGATTTCTGATGAGAGAGGCTTCTTCTGAGATTTCAAGATTA  
AAAGAGGCTTCTGATTTCAAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCT  
CTGAGGCTTCTGATTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCT  
TCTGAGGCTTCTGATTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCT  
AGTAACTTCTATAGGAGAGCTTCAAGTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCT  
41260 GATTTGAGAGCTTCTGAGAGTATAAGCTTGGCTCTCATCAGATGAGGATTTCTATGAGCA  
TATAAAATCTTCTGAGAGCTTGGTTTCTGATGAGAGATTAAGGAGAGATTAAGAGCTTA  
CTTAAAGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCT  
TCAAGATTAAGAGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCT  
CTTGGGCTTAAATGAGATCTTCAAGGCTTGGGCTTCAAGGCTTGGGCTTCAAGGCTTGG  
[10.1]  
GATTTGAGAGCTTCTGAGAGTATAAGCTTGGCTCTCATCAGATGAGGATTTCTATGAGCA  
TATAAAATCTTCTGAGAGCTTGGTTTCTGATGAGAGATTAAGGAGAGATTAAGAGCTTA  
CTTAAAGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCT  
AGTAACTTCTATAGGAGAGCTTCAAGTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCT  
AAAGCTTCTGATTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCT  
41421 AAGAGAGCTTTTCTGAGATTAAGCTTGGCTCTCATCAGATGAGGATTTCTATGAGCA  
TATAAAATCTTCTGAGAGCTTGGTTTCTGATGAGAGATTAAGGAGAGATTAAGAGCTTA  
CTTAAAGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCT  
AACTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCT  
[10.1]  
TCTTTTGAAGAGCTTCTGAGAGTATAAGCTTGGCTCTCATCAGATGAGGATTTCTATGAGCA  
TATAAAATCTTCTGAGAGCTTGGTTTCTGATGAGAGATTAAGGAGAGATTAAGAGCTTA  
CTTAAAGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCT  
AGTAACTTCTATAGGAGAGCTTCAAGTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCT  
42640 AAGAGAGCTTTTCTGAGATTAAGCTTGGCTCTCATCAGATGAGGATTTCTATGAGCA  
TATAAAATCTTCTGAGAGCTTGGTTTCTGATGAGAGATTAAGGAGAGATTAAGAGCTTA  
CTTAAAGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCT  
AACTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCT  
[10.1]  
TCTTTTGAAGAGCTTCTGAGAGTATAAGCTTGGCTCTCATCAGATGAGGATTTCTATGAGCA  
TATAAAATCTTCTGAGAGCTTGGTTTCTGATGAGAGATTAAGGAGAGATTAAGAGCTTA  
CTTAAAGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCT  
AGTAACTTCTATAGGAGAGCTTCAAGTCTGAGGCTTCTGAGGCTTCTGAGGCTTCTGAGGCT

FIGURE 3, page 79 of 122





10: 11  
GTGAATCTGAAAGATTTTATTTTATTTTCTGTGCTGAAATGTGGTACTATTAGGATAT  
CATTTTAAATAAATAATATTTATGGAATGGCAGATGCTATATAGATGTACATATGAA  
ATCGAAGATGATATTAATTTTACGCTTCACTGCTTTGATTTGCACTGCTTAAAGCA  
GTGGTACGCTGACCAAGATGATATATCGTAAAGATGATGAGGAGATTTTGATTTCTT  
TTCTGATATGATGCTTTCATTTTACCAAGTTTTCGAGTCTTATTTCTACTGCTCTG

ACATTTCAATAAGAGAGAACAGCCAGCGAAAGTGTGTTGAATAGAAATCCATTAAATTTGCATT  
GCATTCTTTTGAAGATACTTTCTGGGATTCATTGGGAGATAATGGAAAAATTTCAAGTAAG  
ATGACGCTGGAGAAAAATTTTAACTTTCTTCTGATCTTTAAATTTGAGAAACATTTCTTT  
CATTCTATTAAGTTTCTTAAGCTCTTAAGTATCTGAGGTTATGAGAGAAAGGCGAGAAAGA  
GTAATTTCTATTATTTTCTTAATATTCCCGTCAATTCTCTTTCTTCATCAATATTCGCA

[C, G]  
TGTGTGTAATAGAAATCATTAATTTCGATTTCATTCTTTTGGAAATAGCTTTTGGGATCC  
ATTGGGTAGATTAAGTGAATAATTTCAACTAACATGATCGGTGGAGAAAACTTTAACTTTTGT  
GCTTCATGTTAAATTATGAAATTTATTTGTTTCATTCTATCACTCTCTCAACCTCTTAACT  
AAATTTAGGCTTATGGAGAAAATGGCAGAGACATTTATTTCTACTTTTAAATATTTCCGG  
TCAATTCTCTTTCTGATAGATATTGCCAGTGCCTTCGTTGAGAGAGGTCATTTTGTG

(A) 51  
ATGCAATTGGGAGATAGTGAAGAAATTCACCTAAATGATGCTGGGAGAAAAAGCTTAACCT  
TTGCTCTATCTTAATTTAGAAAACATTTGTTTCATCTCAACAGCTCTCTCAAGCTCTT  
AACTAGCTTACGATATGAGCAAAAAGGCAAGAACTATTTTCTTCTCTTTAAATATT  
CGGCTAATCTCTCTCTTCATCAGTATGCGCAAGTGGCTGGTTGAGACAGGTCATCTT  
CTGCTTAAAGCTTGAAGTGGTGAATAGACTATCTGGTTTAACTACTAGTTATGCT

(T, A)  
 GTAAGAGAGAGATTCTACAGTCTCATGTTGGTGGGCAAGGAACTGTGGGATAATATAAGAGCA  
 TTTGAGATATTTTGAAGCAGAGTAATCTCTATACATCTCAAGAGATATCTGTGTTCCTCTCT  
 TAAATTCATATAGTCTCTCTCTAGTACATTATAAAGGATATAAGGAGATGATGTTGT  
 TTTCTCTATATCTCTCTCTCTGAGACATCAAGAGATCAATAAAGGCACTTTGTAAAGC  
 AAGATCCACCTCTGAAATTTGTGAGCACTCTGAGAGATGAGATCTTGACATCAAGGCCA

1000  
 TTTTCTTGGAGGTAATAATCTCTCTAAATTCTTAAAGATACTTGTGTGCTCTCTCTAA  
 TGGCTATAAAGTGTGTCAGATAATTATTAAGCTGATAAGGAAGAGATGATGTCTGTCTC  
 TTTTCTATATCTTCTCTCTGACACATATAAGAGATCATAAAAGTACTTTTCAAGGAAAT  
 TCCAGCTCTTAAATTCTTCAAGAGGCTTCAAGATTAAGCTCTCAATCAAGGCTCAGTG

[illegible]

FIGURE 3, page 82 of 122

55058

55171

55801

56324

56557

56716

FIGURE 3, page 83 of 122



63688

64921

64934

65150

65198

65674

FIGURE 3, page 85 of 122



66332

66361

67130

67148

67541

67608

GCTGCTGCTTATTCTACTAAGAATCTACTTGCAGAGCAAAAGCTAGGGGCTCATGGAAGAA  
 GACAGTGGAGTGAAGAGGCTGTTTGCATGCAAAAGCTTAGGGGCGGAAGGGATTGATTGGTC  
 TTTGATACAGAGACTGATCTAGAAAGGCTTCACTGTGTGTGTGAATGGACCTGTCTGGGTTG  
 GAATTTCACTGCACTTTGACAGAGTGTAAAGGAACTCAAGGTATACACTTCAAGCAATTTG  
 ATAATCTCTTCTGAGGCTGAAAGTGAATCATTTGATCAACGGGAAAGAGGTAAATTTG  
 [176]

177  
 CAGTACAGCTAAAGAGCGATCTGACCTTGTGATCAGGAGGCAAACTTTCTGTGATACAG  
 AAGCTGAAAGCTAGAAACTCGAATGATGGTATTCATGATGAAGGCATTAGAGACAGCAGGC  
 AATGCTATTTCTTAAAGAGATGGCACTGTGTGAGGGACATGCTTTATCTCTTGAAGCACT  
 ATGGCAAACTTGGACACTTACGTATGCTGTTTTCATTTTCATTAAGAACTTGAGGA  
 TGAAGCTGTGTTATCTATCTGTTATGTGTGAAGTGAAGTACTATGTGCGCTGGGTTTGAAC

GATGATGAAGCATTTAGACGACGAGGACTGTTATTCATTAAGAAATTCGACTGTGTAA  
GGGCGATTTTCTTATCTATTGAACCATATGGCAAACTTGGGACATTTAGGTATCATTTT  
TTCTTTATTTTCTATTAAAGATTGAGGATTAAGTGTCTAATATATTTTCTATGTTGAA  
ATTATATATATTTGCTGGGTGGTGAAGCTTTTCTATAGCTTAAATTTTCTAGAGCTTT  
TAATTTCTTAATTAAGGTTGTTTCTGAGGCTATTTCTGATTTTCTAGAGTGTGGGGAC  
[3.1]

AAATTCGTCGCTTTTGAAGTAATCAATATTCTCTCAATTAGCTATGCGGCAAGAAAGACGAG  
AGTTGAGAGATTAAGTTCTGGCTCAAAAGSTGCTTTCTTCTCTGCAATGACCTAATAT  
CTCTATCTCTCTCAATCAAGTGTCTGAGGAAGATCGGAAGCTAAATATTCCTGAAGCT  
TCAATATCTATTGAGATGAGAATAGAGAGCTCTCTCTCAATCTCTCAAGGCTAGAGCT  
CAATCTCTTCACTAGTTGGATGCTCTCAACCTTAAGGCTAGTATCTAAATGCTAGTTAA

GCGTAACTATATGAAACATCATGCGAAGACTGAGACACTTAGGTATGATTGTTTTCAT  
 TTTTATTAAGAGACTTTAGAGATTAAGAGCTGTTAATGCTATGCTTTTAAAGTGAAATGAGTA  
 TTAATGCTGCTGCTTTGAGGCTTTGTTATACTGCAATTCTTCAGAGCTTTTAATTST  
 TGAAGTAAAGTGTTTCTGGGCTATTCTTATCTTTGAGAGCTGGGGGCGAAATTT





$(\cdot, \Gamma)$ 

C. 2.1.1

$$CH \subseteq H.$$

— 32 —

15, 3

CCAA

ver. 7.

[35]

222

624

13.

66

IT



30

A/C

TC







[illegible]

CTCTGCTTCTTTGGAGTGC AAT GAGAGAACTGAGCTTACA AATCTCTTTTGATGTAA G A  
 TCAATACGCGCA TCA TCTGATAGT TACA TAAAGGAGTGGATGCAATTTGGATGCTTTTGCT  
 GAGCTTTATATAGAA TGGTTCTT TACATTAACCTTAGGACATTCAGAAA GAATTA ATTTCA  
 TCTTGAGCGCAATATCTGTATCAATTTAAATTAGSACAACATATTTATTAAGATATAG  
 GTATCTATCTATCTTAAGAACT GGAATCTGAATACCTACTTTTATTCTTACTTTTACG  
 (G,A)  
 CTGTGTAGTAAGCTATCTGTGATGAGCAATTTAACTTCTGTGAGCTTCACTTTCTGATC  
 TTTTAAGSACA TTAAGATAATACAGATATCTGTGAGAACA TCTTAACTTTAACTAAATGAGA  
 AAACTTAAATTAAGTAAATATATATGAACTTTGAGGCTAGCTTTATATATGCTTT  
 TAAAGCTTTTAAGSAAAAG AAAAAAATAAATCTCTAAGGAGATTAGGAAATGTTTCT  
 TGGGAA CTGTGGAAAACA TTAAGCTTTGAAGAATAGGATGATTTTGAACATAGGAGA

GAG TTAGAAATTTTCTTGGAGGTAAAGCATGACAGGAGGACCAAGCTTGTATTTAGAAATAA  
GAGAGTATGATGAGATTTGGATGATTTTGTGTGACCTTGTATACAAAGAGTTTATTAGAAATAA  
GCTTAGGATATGGAAGAAGATTACATTTATCTGAGGCCAGGTACTGTTAGCAATTTCAA  
ATTAGGACACATATTTGATTAAGATATAGGTAGTATATGCTAGCCTAAGAACTGGAATTTG  
AATAGCTACTTTTATTCTTACTTTTACCGCTTGTATAGTAACCTATTGCTTGATCCAGCAT  
(T/C)  
TAAGTTTGTGAGGCTCACTTTTTCATCTTTTAAGACAGTGATGATAATGACAGTATATG  
TAGAAGAGTTTAAATTGAAATAAGTGAAGAAAACTAAACAAACACATAGAAATTAATATG  
GAAATTTGTAGGTTAGTTGATATATGTTTAAAGAGCTTAGAGAAAAAGAAAAATAGAG  
TATCTTAAGAGATATTTGAAATTTTCTTTGGGAGGTTTGGAAAGCAGCTTAAGCTTGAAG  
GAATAGGATGATTTGAACAATGGAGAAAGATGAGAAGGTATGAAATGAGGCAAT

TATCACTACGATATATTTACCTTAAGAACTGGAAATATGAATACCTAATTTTATTCTACTT  
CTACCTTTTGTATGAAATATTTTTCATCCACATTTTAACTTCTTTSAGCTTCAATTTT  
TCAATTTTAAACATTTAAATGAAATACAGTATATGTCAGAAATATTTAACTTGAATTA  
ATGAAAAAATATATAAAAAACATATAGAAATTAAGTATCAATTTTCTGAGTTAAGTTTATAC  
ATGTTTATAGAGGTTAGAAAAATGAAAAACATAGCTATCTTAGAGGATTAATGAAATG  
[1, C]  
TTCTCTGGGAGGCTTGGAAAATAATTAAGCTTGAAGAATAGGATGATTTTGAAGACTG  
GGAGAAGACATGAAAGATATTTCAATTTGAGGCAATAGCTCTACTATTCAGAAAGACTG  
TCTTATTTGCTTAAATCTATGGCTTTCTTACTTACGTTTAAAGAAATATTTCAATTTTGA  
TATCTTCAATTTAAAGCTTTCTCTATTTTCTTAATTTTCAATTTTCAATTTGATTTGTTTCTG  
GGAGGAGTGAGGCTTATTTTCAATTAATTCACATCAAGATACCTTTTCTCTCTCTT

TATGCTAGCGCTTAA GAAATGGGAATGTGAATACCTACTTTTTATTTCATTTCTAGCGCTTGG  
TTAGCTAACTATTCTTGATG A TATTGAACCTCTCTGAGCGCTCACTTCTCTCATCTTTA  
AGGAGTATGATGTTAAAGAGATATCTCTGAGACAGCTTAACTTGGAA TAAATGAGAGAAAA  
CTAAAGAAAAA A ATAGAAATTAATATGAATTTCTGAGGTAGCTTATACATCTTTTAAAG  
AAGCTTAGA GAAAAAGAAAAAGCTAAATATCTCTAAGAGAGATTAGGAATGTTCTCTAGGS  
(G:A)  
AGGTTGGAGAAATAGGTAAGCTCTGAAAGAAATAGGATSTATTTTGAATATCTGGTAAGATA  
TGAAGAGTAACTAGAAATAGGTAAGATAGCTGCACTATCCAGAGAAATTTCTGATGCTC  
CTAATCTATAGCTCTTATATGAGTTAGTTTGAAGAGAAATCCCAATTTCTGATACCTTAAT  
CAAGAGCTCTTCTTATCTTGAATTTCAATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGAT  
GCTTACTCTTGAATTAATTAATGAGAGATACCTCTTTCTCTCTCTTTCTTAAAACT

GTATCTGTAAAGAAATATTAAATTGAAATTAATAGAAAAATAAATAAACACATAGAAAT  
TAATATATTAATTCGTAATGATATATATATATATATATTAAGAGATTAAGAAAAA  
ATATATAGTATCTTAATAGATTAGAAAAATGTTTCTCTGGGGAGGTTTGGAAATGAGGTAAG  
CTTTAAATAATAGATATATTTTAAACAATGGAAGAAGAGATAGAGATATCTAAATGAG  
AGAGATAGAGCTTAATTAAGAAACAATTTCTGATTTCTTAATGCTATGCTCTCTT  
TAGGAT  
CTTCAGCTTAAGAAATATTAATATTTTATATATCTTATTAAGAAATCTCTTTTATTTT  
TAATTTTATTTTATTAATTTCTCTCTGAGGATAGGATATGTTTAAATAAAT  
GATATTAAGATATCTCTTTCTCTTTTAAATAATTTCTGTTTAAATAATATATATACT  
TATTAATAAATAAAGTTATCTTAAGATAATTTCTTAATGATAGGCTTAGGCTTTAAT





[illegible]

FIGURE 3, page 96 of 122



[illegible]

[illegible]

[T. 1]  
 AGAAGACAGATGAGCACTTCAATTAATTAAGTCGAGGACACATTTTATGTTTGATATGCAATGCTGA  
 GAGATATGATTTTCTTTTAAAGCACTTTTCTTCTCTTTCTTTGTTTATTTATTTAATTTGAAGAA  
 AATTTCTTTATTGAACCTTCATATTTTCTTTGAAGATTCGATTAATGATGGGTCAGATGCT  
 CGCATATGATATATGATAAGAACTGACACTGAGTTCTGAGATTTATAGTAAGGCTCCAAAT  
 TTATCTTGATATTTAAATTTATTGGAACATTTTGTGATATTTATTTATTAAGCACTCAT

CAATTAAAGAAATCGAAACCATTCGAGTGCATAGGGCAATCAACCCATCTGTAGACTTAT  
CTTATACAGAGAAATTAGGTGGAGGCTTAGCTCTCTCTAGTTTGGAAACCGGTGGGGAA  
ATTTCAGAGCAATCTGTCTCAGAGAGAAAGAAATTTATCTCTCTGTGATCATAGAGGAC  
GAGTGGAGAAATAGCTCTGATCAAGGGAACTTGCGTTATTCGCTGCAACAACCTTGTG  
TTAGCACTTCAATGATTTCTCTATTTAAGATTTAGACTTAAAGCACTCTATCAGACTA

(10.6)

```
GGTTTAAAACTACTATTTCATTCTTTTGGTACCTATTTTATAAAATGGGGAAACTGAGTCT
TGGGGGATATTAAAGCTTTATAGACCTGTAAGTGGTATATTCAGAGCTTGAAGAGCTTTTCT
GATCTCTAATTCGGGCTTTTTCACATAGCTCATGATCTCTCTGCAAGTCTGATCTGTTTA
CTCTAGCTCTGCTTTATTGTTGGTGGGTAATCAAAAACAAATGACTTAAGTCTCTTAATC
TAATTTCTCTCTCTCTCTTAAATATCTCAAAATTAATTAATCTCTTAAAGCTAGAGATA
```

GCTTTCATGATTTTCTGGATGGTCTTACAGAGGAACAAATTAAATTCATGAGGAATGATGCC  
 ATTGGTTATGTCACACATGATGGCGCTGGGATTTTAAAGGAATGCATGTATTAAATACATGCA  
 AACTGAAATACATGATGTAAATTGTATATATATACCTGATATATATATTGTTTACAGAGAA  
 GAGGTTAAAGCTTTCTGGAGAGGCTTTCTGTGGGCATGTATATGCCCCAAATTCATAAAAAA  
 CATTAGGTTCTTCCAGATTCATTAAAGTGAATTAGTAGGCTCTCTTATGATGTGTTATAAAT

AAAAATACAGTAACCACTCTCAAGAAGAAATTAAGGTTTAGGATAGGCATGTTGGTACACAC  
 TGTAAATCCCAAGCATCTGGGAGAGTTAAAGATGGCAGTATGGTTGAGGCAAGAGTTTAA  
 AATAGCTTCAGTAACACAGTGAAGATCTCTTACAAAAAATTTAAATCTGTTATTAAG  
 AAAAAATTAAGGTTTATAGATCAAGAGATCTGAAGATCAAGCTCAGCCTTATATCAGAA  
 ATCATCTGGTATCTGATGAAGAAGAAATCTGGCAAGAAGTCAAGAGATCTGGGCTCACTTFA

AAAAGSANTCAATTTGATHATATGCGATGAAGGCACTTTTGGAAAAATATGAAGTATCTCTGC  
 AAAAGTCTGATATTAACTATGAGATATTAAAGTATTAAGTATTATTCATAGTTGTGCAACT  
 CAGAAAGAGGCAAAATTTCAAGTCTCATCTAGCAAAAATTTTAAGGCGCTGCTTTTCTTCACTC  
 TCTTAGAAGGCTGCAAGCTGATATTATGATCAATAATTTCTTGATTTTAATACAGAAAT  
 GGTTCGAATATAGCTTAGAGATTCAGAAATGAGATGCTCACTAATTAAGAGCTGCTAA

(A/T)  
 CAGAGCATGTGGCTTCTTCTTTAGTCCAGGAATTTCTCTCTTTTAACTACCTTTATTTTATG  
 ATCCAGTTCTCTTAAGGAATGGTCAAGCAGCCAGCAGCTTGAACCTCTTCTGGGAATATGT  
 TAAAAATGAAATTTCTGAGGCTCATCCAGACCTTAATAATCAGAAATCTGGGAGGTGG  
 AGCCAGCAGCTCTTTTCTTAAGCAATCTTAAAGAGATTCTATGCTCTGCACTTAA  
 GTGTGAGAAATATGATAAGTACTATCTTTGAGAGAGCTTACTTTGCTCTGGGTAC

ATGAAGCGCTTGGCTTTTTCATTCTCTTACGAAGGGTCTATAGCTGATATTTATGCATAAAAT  
TCTCTGCACTTTTAATGAGAATTTGTTGGCAATACAGCTTATAGGATTCAAATGGAGATCT  
CAGCTTTCTGACAGCTCTCTAAACAGAGATCTGGCTTTCTCTTAGCGCAAGAGTTCTGCT  
CTCTTATACGTTTATTTATGATACAGTGGTTCTCTAAGGAATGCTTAAGGACAGAGCGG  
CGAGATTTCTCGGAATATCTTAGAANTGAAAAATCTGAGCTGCATGCGAGACTACT

(A, S):  
AATTAAGAAATCTTGGAGGTTGAGTCTTAGTATGGCTGTCTTTCAACAAACCTTAAGAGGAT  
TTGATATGCTCTGACATTTAAAGTCTGAGAGAACTACTCTATATGCTGATTAATCTTGGAG  
AGCTATTTTGCTGCTCTCTGATTTTAAAGAAATCTTGGGCTTCCAGTATCTTAAAGAGT  
AGTCTGATCTAACTTTTGAAGGCTGATGCTTAGTAAGAGTTTGGTTAGTGGAAATGTCAA  
CTTATGTAAGATATGCTGGTCTGACCAAAACCTAATCAAAATAGCTCTCTTAGCTTAAAG

AAATGGAATGATTAACATTTCTAGAGCTGCTAAATAGGAATATGTGGCTTTTCTCTAGC  
CAAGCACTCTGCTCTTTTATTAATTTTATTTTATGATAGTGGTTTTCAGAGGATGGCTCA  
AGTACCTGAGAGCTTTGAGCATTTTGGAGATATTTTGAAGTAAAGAAATCTGGAGAGCCCA  
TCTAGACATCTAAATATGAAATTTGGAGATGGAGTTCAGAGTCTGTCTTTTACGAA  
AGCTCTAAAGGATTTGATGCTGTCAGATTAAAGTGTGAAGATCACTGGCATAAGTGA

TATCTCTGGAAGAGACCTACTTTCTGCTGTGATATTTAAATAAAAATCTCTGGGCGCCAGT  
 AATCGAAGAGAAATCTCATCTTAAGCTCTCTGAAAGGATCATCTTTATAGAGAAAGGTTGGGCG  
 TATCTGAATCTCAATCTTAATAAAAATGCTGGTGGTCTGACCAAAAATAAATCAAAATAGGCG  
 CTCTTAATCTTAAATCTCTGATCTAGGTTGGTGGTCTGAGAAAGAAATATTAATGTATCTCA  
 ACGAAATGCAATCTCTCTCAAAATATCAGAAATATATGATACCTTTGCGCATGGCTGGAGGCTT







CGTGTTCGCTCACCCTATTCTTGGCTGTGTGATCTCAGCACTATGGGATCAGAAAGGG  
CGAATCTAAACAATAAGAAATAAAAAAGAAATTTTTCCTCAATGCTTTGAAAGAGG

142186 TATATTGAAGAGAAAAATCCCAATGTATATTACTGCGTGGCTGTTTATTATTTGTTT  
TCTATTAAGTTGAGGATCCCAAGAAAATTACTTTCCCTGTGGCTTCACTATTCTTGGT  
GTCTGAGATTCAGCACTATGGGATCAGAAAGAGGCTCACTCAAAACAATAAGAAATAAAA  
AGAAATTTTGGTCAATCTTTGAAAGAGAGGCTCACTCAAAACAATAAGAAATAAAA  
GAGTCAAGTCCCTTCCCTATGATGATCAAGCACTCTTAAGCTTCAAGAAATCTAAAG  
[12.1]

AAGAAAGTCAAGTAAAGATTTATGTCCTTTAAGAAATCTGGCTTATCTTCTTATGTTT  
CTTAAATGAGAAATAAGGTTGAGAGAGTAATCATCTCAAAACAATAAGTCTTCTG  
GATTTGATAGCTATGAGCACTATGGTCTGGTGGTGGTCTGCTTGGTCTATCTTGG  
AAATGTAAGAGAGTCTTAATGAGTCTTCTGAGTCTGTCAGAACTATGAGAGAAAT  
CAGAAATGAGATAGAGAAAGAGTCTCTTAATGCTTAAGGCTATTTGATCTTGAATA

142212 TTATTACTGCTGGCTTTGGCTATGCTTTGGGCTTCTATGAGCTGAGAGAGCTCAAGAAAG  
CTATTTCTCTTGTGGCTTCACTATTTCTGGCTGCTCTGATCTCAGCACTATGAGCAAT  
AGAAAGAGCTCACTCAAAACAATAAGAAATAAAAAAGGAATTTTGGCTCAATGCTTTGAA  
AAGAGAGTCTCAAGCTTCTCACTCAGATCTTCAAGAGTGAAGTCCCTCTCTCTCTCTCT  
CAAGAGAGTTTAGAGCTGACAGAGCTCTCAAAAGAGTCAAGAGAGAGATTTATG  
[12.1]

CTTTGAGCACTATGCTGGCTTATCTCTTCTAGCTCTTTCAAGAGAGCAATAGAGGCTGAG  
GAGAGTATGCTCTCAAAACAAGAGTCTGGCTCAAGTCTTAGGCTATGAGCACTATGAG  
CT  
TCT  
CT

142600 GTGGTCACTATTGATGTTATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
TCTGTTGAGAGTCTCAAGAGAGTCTTATATGAGTCTCTCTGAGTCTGTTGAGAGCTATG  
AGCAATGAGAGCTTGAATAG  
GGAAATACT  
CT  
[12.1]

AGCTTTTAATGCAAGAGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT  
GGTCT  
AGAGAGTAG  
CT  
CT

142631 AGCTTTCT  
AGCTTTCT  
AGCTTTCT  
AGCTTTCT  
AGCTTTCT  
[12.1]

TAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
GAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
ATCT  
GAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
TATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT

145397 GAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
AAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
CT  
CT  
CT  
[12.1]

AGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
AGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
AGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
AGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
AGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT

145438 GAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
AGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
AGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
AGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
AGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
[12.1]

AGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
AGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
AGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT





[illegible]

[illegible][illegible]

156897 GGGTTCTGGGTAGAGAAAGTGATTCTTCTCACTGAAAACCAAAATCTCTTAAAGTTCAGGGCC  
ATGAAACACACGCTTCAGATATCCAGGAGGCTATAGAGATGGGTCAAGAGCAAGAAATTGTGT  
GAAATCAGAAATCTTCAGTAATAGAACTATCTCAAGCAGATGTTAATGATACCTTCAGGGT  
TCTCTGCAGATCTGTATCTCTCTCTCTCAAGTGGAGTAGGACACATGGGTATATGGTTCAG  
CTGCAATCTTTAAGAGATTATCACTTTTAAAGGCGATTCTTCTAGGGCATCAAGCAAAA  
(177)  
GAGAACTCAGAGTAGAATAATAGTAACTAATGGTTAATTGCATCTTTATTTCAGCATGG  
CTCAAAAGATTTTCATTAACATCTCAAAAGTATTCAACAAAAAAGCTCTGGAGCGAAA  
TAGATCTCAATAAACTGGGATATAAAATCTGTAGAAATCTCTCAACATCTTTATGAGCT  
AATCTCAAGTCAAACTTAAAGACGAGCAAGATATGCAACATTTCAAAATCTATT  
BACTAAAGACACTTATTTTCTAAGAGATCTTGTGGGGCTATAGTTTCATGAAGCTT

157808 GCGAAGGATTATCGAAGCTTCTCATCTTATATCATATATGTAAGGCTTTAGGAGTGGACTG  
AATTGAGTTTAAATCGGATGAGCTTGGCTTATTAGCATCGTATTTTAATTAGAAGTATA  
ATTCAAGACAGAAACCGATTGGCAAGTGGATGGGATCTACAGAAATCGGTCTCTGGGT  
ATTTTCTGAGGTAACTATTAATATGAGCTGATACACTGGGGGGTCTGAAAAATAGTATA  
GCAAGATCTACAAAGGACCAAGCTTAACATTAGCAACAAATGAACACTGAGAGTTAAGGGC  
[ -, 3, 1]  
AGATTGGGAAAATCGAAGCTTCTTTTATAAGCTGTATTAGCAACCAATGAGTGGATCT  
TCTTATAGCAAGCTTTTATGCTTTTGGCTTAAATTGATAGACAATTGGAGGGAAGTATCT  
TATATTAAAGAGTCAAGAATATCTGCAAGATCATATGTCTAGCTCTGTACTATCTTGAATA  
TCTTCAATTAATTTCTGAGCTTGGATTTCTGCTTTTAAAAAAATGACCAATCATCTCT  
TCTAGCTCTCAATAGGCTCATCTAGAGACCAAGTAAAGTAAATGATGAAAGTGTCTTAT

159171 TTTTAATGCGACATGTGTCAATTATACGCTCAGTAAAGCTTTTCATGGTCTCTGAGTCCAAACT  
TAATGCAAAAGACCTTCAACTTTCAATGTCAGCAGATCTGGGATCTGAAAGCTAGCTTCT  
GCTTTCTTACGCTGCTTTGCTTTTCAAAAGCTCTCTCTGCTCAATTTCACACTTATAT  
AATAGGATATAAATCTCTATGCTCTTATTTCTCTGCTCTATAATCAGGATATAAAACAA  
TCTCTATCTTATAAAGCTTTTCAAAAGTGAATGATATCATATGAACTCTTCAAGTGGCT  
TAAT  
TAAATATAAAAAATCAAAAATCTCTCTCTGCTTTTATGATCTTATCATCATCATCATCT  
CTTATCATATAATCTCTATCT  
TCTATCT  
AATCT  
CT  
CT

FIGURE 3, page 106 of 122

(3, A)  
TGAATTATTCCTTTTACTGTCCTTACCTTTTCATTCTATACCTAANTAGTCTTTGTAATAAATT  
TATTATTCCTATGCTGTAAACAAATTAATTTGTCATCTGCAACCTCGAAAGGTGAGACAAG  
GAGTACATCTTCTATGTCCTCTCTCTTCATCAAGAGATTAGAAAAATTTTCACTTCGAGAGA  
GCTTTTCAAGAGTATTTTCTTACGAGCTTAGTACGAGCTTCTTCAGATCTCAAGAGAGTCA  
AGAGAGAAACCGAGAAACCTATATTTCTTTTATTTCTCTTTTACCTTTTACCACTTTTCA

TTTA GATCTTATCATGACGAGAT ATG TCTGTCATGATAAATTTTCATGCTCTTTCCTGGCTTT  
CTAAATCTTTCCTCTTTTAAATTTAAATGCAATTTTGAAGTGTCTTCTATCTTTCTTCT  
TCTTTTATGATTTACTTATTTTATTCAGTTTCTGGGAATGCAATTTCTCTTCTCAAT  
AGATTTGTAAGATCTTTTCTCTTTTGGAGGATCTCTTATTTCCCAATTTCTGGGATG  
GAGCAATTTCTTCAACTTCTATGATTTTCTCTCTGTAATGATCTAATCTTCTGATCT  
(C.T)

TCGTT  
 AACTAGCTCTGTGTAATAATTTATTGCACTGCTGTTAAATTAATAAATGCTTAACGGCAAG  
 CCGTTAAAGTGTGAGACAGAGGCACTACACTACTTATTTGTTGCTGTGGAGGAGCTTTAGA  
 AAGCTTTTGTGAGTTGGAGAGAGATTTTGTGAAATGATTTTGAAGCACTTAGGAGGGGCT  
 GTTCAGATGGGAGGAGCTCAACAGAGAAAGAAGAGAAACCTCTATTTTCTTTGATTTTCT  
 CTTCAGTGTGCCCACTTTTGATGATTCCTTTTTCAGATGGCACTATTGAGGGGGTCAAC

CCTACTCTCTTATTGTATACTAAATAGTCTTGTAAATATTATTCATCTACTGGTGTAAAC  
 AAATAAAATGGGTACCGCAAGAGCTGAAAGGTGAGACAGACAGATACACTACTGATGTGGT  
 TGGCTGTAGGAGCTCTTACAAAAATTTTGAGTTGGAGACAGAGCTTTGTGAAAGTCAATTTT  
 CAGGCACTTAGCGAGGGTCTGTTTCAGATGGGAAAGAGCAACAGCAAGAAACAGGAAAC  
 CATTATTTCTTGATTTTCTTCTCACTTCTCCCACTTCTATGACTTCTTCTCAGACTS  
 [C]T]

GAGTATTCGAGGAGGCTGACGCTGGAGGTCTATTTCACGTAAGCTTTGGAGGCTAATGTCAGCT  
 GAGGCGCTGGCAAGCTAATAAAGCTAGAAAAATGTAATTTGCTGTTGTGTAATCACTCTG  
 GGCTCAGTAAAGGATGACACACTCTCAAAAGAGCTCCAACTAGCCGCAAACTAGAGAGT  
 AGAGCGCTGGGCTTTTCTGAGTCTGTGAGTTTGGATATGCAATATTAAGCTTTCTGTAAGGCT  
 CAATTTCACATATATAAAATAGGGATTAATAAGTATCTATCTTGAAGATTAAGTGGAT

CTACCTTTCATTGTATATACTAAATAGTCTTTGTAATAATTTATTTCACTATTTGGTGTAACA  
AATAAATCGGTACGGCAAGSACCTGAAAGGTGAGACAGAGAGCTATAATA-TGATGTGGTT  
GCTTCGAGGAGATCTTTAGAAAACTTTTAGAGGGAGAGAGTTTGTGAAAGCTGATTTTTC  
AGGAGTTTAGGAGAGGCTGTGTTTAGATGGGAAAGAGCAACAGAGAGAAACAGGAACAC  
CTATTTTCTTTGATTTCTGTCTCACTCTCTCAATTTGTGATGACTTGGCTTTCAGACTGC  
[6.4]

[G, A]  
 AGTATTG TGGGGTCAAGTGTGAAGTGTATTTCAGGAACGTTTTCAGATATAATGTAGGTTG  
 GAGGTTT TGAAGTAATAAAG CAGAAAAATGTACCTTTGTTTCTGGAATCATCTCTTGG  
 CAGCTTTCAGAGATGATACATTTTCAAAAGACCTTCATATGAGAAATTCAGAGTTCA  
 CAGAGCTTTCGGTTTCTCAGTCTGTGTGAGCTTTCAGATGATGATAAATTTTCTTAAGGTC  
 AATTTTCAATATATAAAGATGAGATATAATATGATTTTCTTGAAGATTAAATGAT

AGGCAAGAGAGAGTGTATTCTTCTCTAGAACTTTAGACATCAACACAGCTGTGCTGA TACC  
 TTGATTTTAGCTCTGGAGACTATCTCATGGATTTAGCTCAAGAACTCTAAGATAGTAC  
 ATTTGCTTTTAAAGACAGTAAATGCTGTGATAACTCTCTACAGTAGCACTAGGAATCT  
 ATATACACATCTAATTCTCTAAGAAGAAATGAACTAGCAATGAGTAATGGCTCTCTACT  
 CATTTAGCTATAGATCAGAAGAGAGTACTTTAATTCAGGACACATTTATTATTATTCT

(-, 1, 81)

TTTATTTAGTITAGTITAGTITAGTTGAGACAGAGATTTCATTCTTGTGACACAGGCTGSGAGTG  
CAATGGGACGATGTGGGGTCACTGGCAAGCTCTGCTCTCCAGGTTTAAAGCAAACTCTCTTCTG  
CTTAGGCTTACGAGGTAATTTGGATTACAGGTATCTGCTACCATGTCTGGTCAATTTTCTGT  
AAATTTCTTTTAGTAGAGAGATGGTTTTCATCATGTTTGGCAGCTGGTGTCTTAAAGCTCCGGA  
CTGACAGGATATGACCAAGCTGGACCTTCAAAAGTGCTGGGATTAAGGCGTGACCTACT

GGTAAAGAGAGTGGAGTTCTTCTGTAGAA TCTTACAGCACTAAATATG TCTGTGTAGAGCT  
TATCTTATGCTGGGGAGATATATCTCATGCACTTACCTCAAGAACTGTAAAGATAGTACA  
TTTCTATCTTTTATAA TCACTATAGTGTCTATATACCTCTTACAGCACTAATAAGAAATA  
ATAATAATATTAATTCTTAAGAGAGAAAGAAATAATATGAGTAATGTCTCTCTATCTC  
ATTATCTATAGATACAGAAAGATATATTTATTTCAAGAGACATATATATATATATTTA  
[1-15, 11]

(-A, T)  
 TATTTACTTAACTTAATTAATTTGAGACAGAGTTTCACTTTTGTCACTAGGCGTGGAGTGG  
 AATGCAATCATATGTGGGCTACACTGCAAGCTTCTGCTCTAGGTTCAATTAATTCTCTGG  
 TCACTATACAGGTACTCTGCAATTAAGCTATCTCTCAATGCTCTGCTTAATTTCTT  
 ATCTTCTTATAGAAATGCGGTTTATACATGTTCTGAGTTGTTCTCAACCTTCTA  
 TCTAGCTGATCGACCTAGCTGACATGCTGCAAACTGCTCTGATTATAGCGGTGAGCTAT

AGAGAGTTCAGATTTTTCCTCAAGAACTTTAGACACACCAACAGAGCCCTGCTTGACACCTTTGAT  
TTTAACTCTGGACATCTATTCATGCTATTTTACCTTAAAGACTGTGAACATAGTAGTACTTTT  
TCTTTCTTTTAAAGGCGCATAGATGTGTGTGATTAATTTTTCACAGAGCAGTATGAGAACTAATA  
ACCACTCTAATTTCTCAAGAAAGAACAGAGCATATGAGTAGTAATGCTCTCTACTTATTT



TCAATTGACAGTACATTCTTCTATAAAACAGGCATTGTAACCTGACAGSTGTTGASTTAGA  
TCTCTCTAAAGTGTGCTTCTCTGCTTCTCAAAAACAAAAGTCTATCTGACCCACAGAAATTA  
[A, G]  
GATTTTTTCTAGATTCTTTAATTTTTTAAAGTACATTTATCTATTGAGATTGAGAAGTAG  
CAAGCTAGACAGAGCTTCAAAIAAAGTTTGGACAAATGTCATACAAATAGAAATGATAGTTT  
AGCTACTTGAAGATGACAAAGTTTCTTAATCTCTCAAGAGCTTGGGCTCTGCA  
GAGATCTTCTATAGGATAGCTATTAAGCAGAGCTTGAAGAAATAGAGATAGACAGAG  
GTTTAAAGTATGAGATTTTAAAGTACTAACTGTTCTATCTTATTAAGTAAATTTG

163647 AAGATAAAGTTAAGAGCAAGATATAAAAGCACTGGCTAGGCTTCAAACTGAGCTCTA  
GTATTTAATAGCTTTGTTGATTTTGAAGAGCTTTTAAATCTTTTACATCTTAAAGTTCTTG  
ATCTTAAAGTCTGATCATATCATATAATATAGGCACTTTAGAGAGCTCTCTTTGAGAA  
TTAAAGAAATCAATATATCTTAAAGCACTTAGAATAGAGCTCTGCTGACAGTAACTGCTAG  
AAGCAATTTATTTCTATTTTCTGCTATTCTAGTCTCTACTAGGAGAGCTTTTGGAGT  
[A, C]  
CTTTCTCTCTTGGGCATAAGTGAATCTCTGTAAGTGTGAATGAAGGCTCTGTTCTA  
TAAAGCTGATAAAAGGCAAGATACATAGTCTGAGAAAGTCTCAAAATGATAATGAC  
ATATTAATAGAGAGTGAAGTATTTATATTTGTTCTATGTTATAAGAGTAGCTATTACT  
ACTATTTTCTTAGTGTGATGTTATAGCAGATCTATCTCAAGAGCTCTGCTGCTAAT  
CTTACTTCTATCTGACATCAATTTTGTAAAGAGCTTTTCTCAATCTCTCTATTTATAG

163675 CAGAGCTGCTAGAGCTTCAAACTGAGCTTACTATTTACTGCTTTGTTAGCTTGAAGCA  
GTTTCTTAAGCTTTCTACATCTCAAGTCTCTGATCTTAAAGTGGGATCAATATCAATAA  
TAAAGCTTCTTCTAGAGGCTCTTTCTAGAGATTAAGAGATCAATATATGTTGAAGCACT  
TAGAAGAGAGTCTCTGCTAGAGTAAAGTCTTAAAGCAAGCTTTCTCTATTTCTGCTATT  
CTTAATCTCTTACTAGAGAGCTCTCTTACTGCTTTCTCTCTTGGGCAAGTGAATCT  
[G, A]  
CTTGTAAAGTCTGAAGTGAAGCTCTCTGTTCTATAAAAGTCTGATAAAAGGCAAGTAAAT  
ATCTGATGTAAGAGTCTCTCAAAATGATAATGACATATTAATAGAGAGTGAATCTATTGTA  
ATTGTTCTATGCTAGAGTAAAGTCTTACTATTTTCTTACTGTTGTTATGTTATAGC  
AGATAGTATCTTAAAGAGCTCTCTGATGCTAATCTTACTTCTATCTGACATCAATTTGTA  
AAAGAGCTTTTCTCAATCTCTATTTTATAGATGAAGAAAGAGAGATTATATCTGCT

165562 CAGAGAGAGATAGGATAGCTTGGGATATAATTTATGTTAAATAAATGTTCTTGAATG  
GATTAATTAATTAATCATAGAGGCTTTTACAGAGGAGTTGAGATTGAGAGCTCAAGCATTA  
AGGATAGCAAGATCAAGAGAGATGAGAGAGCTTATCAAGAGAGATATTGTTGAATGAA  
GCTAATGCTAGGAGATTAAGCTTTGAGAGTAAAGGCTCTAGTGAAGTCAATGAGCTCTTG  
TGAAGATTTCTCTTATTAATTTATAAGCTTTCTGAGTCTTCTTATCTCTATATATTTATC  
[T, T]  
CTTAAATTTATTTATTAAGTCTCTCTCAATGAAGTGAAGCTTCAAGAGGCTGAAGCAG  
CATGCTCTTTCTGAGCTTTTCTCTGTTGCTCAATAGTCTTCAATGATAGAGAGTCTTATA  
ATACATATTCTTCAAGAGAGTCTTAGAGAGAGAGAGTCTTATATAGGTTGAGGAGAT  
AGATAGATGAGAGAGTCTGATCTAGGTTGATCTATGAGAAATCTCAAGTTTCTATAAGT  
AAAGAGATCTAGTTATGAGCTGCTCTCTTGTTTCAATTTGTAATCTTCTCTCTCTGAG

166011 AGGAGGAGAGGCTCAATGATAGCTTGGGAAATAGATAGAGTGGAGAGTCTGATCTAGCTT  
GGATCATATGAAGTTCTCAATTTTATAAGTCAAAAGTCAATGATTAAGCTCTCTCTCT  
TTCTTTCAATTTCTGATCTTCTATCTTCTGAGGAGCAATATTCTCTCATCTGCTTAAATGCT  
TCTTTTAAAGATCATCTCTTTGCTGTTTCTGCTTTATTAAGAGCTTAAATGCTCTCTG  
ATAAGGCTCTCTCATCTGTTTAAAGGAGAGCAAACTATTGAGAGAGAGTGAAGAGTAA  
[T, G]  
GAAAGATTTATTAATAAAATATCATCTCAATAGTATTTGAGCTCTCTGCTCTGGAATTT  
ACAACTAAGCACTATTCTAAGAGATTTCTTGTGCTGCTTCTGATTTAATTAATCTCTGAG  
ATAAGAGAGATTAAGTCACTATGAGATACATCTCAATTAAGTATCTCTGATCTGAT  
TTTAATAAGCTTGAAGATTTACTGAGTTAGAGAAAGAGGAGAGTCTTATATCTCTGTA  
TATCTCTCTCTTGAAGATCTAGGAGAGAGAGAGAGTGAAGAGATTAAGTAACTCAAT

166623 AAAAAATAGGAATTAATCTAGTTAAATCTGAGGCTGAGCTAGATTAATAAAGAGCTCT  
CTAGCTTAAAGCTTCAATTAATAGCTCTCTCTCTGCTGAGAGAGAGTCTCTGAGCTT  
TTTCAAGAGATATTTCTCTGCTGAGATGATTAAGGATAGCTCTGATTTTCTGATTAATA  
AGGATTTCTGAGATTTGCTCTTAAATTAAGCATAATCAAAATCAAAAGGAGAGT  
TCTAGAGATTAATCTCTCTGATATCTGAGAGAGTCTATATGATCTTCTGAGTAA  
[G, A]  
TATCTCTCTCTGAGCTTTGAGTTCTATCTGATAGTGAAGCTTTGAGTGAAGAT  
CTAGCTTTCTCTCTGAGCTTGAAGTCTGAGTCTGATTAATGATTAAGTGAAGTGAAGT  
ATTCTGAGAGAGAGAGTCAAAAGTCTCAAGAGAGAGAGAGAGAGAGTCTATATCTCTGAT  
GAGAGAGATTAAGTGAAGTCTGATCTATATCTGATTAATTAAGTGAAGTGAAGTGAAGT  
TATTAATTAAGTCTTTCTCAATCAAGAGATTTCTGATGAGATTTCTGATTAAGTGAAGT

167461 ATGCTCTCTATCTGAGCTTGGGATATTGTAATCTAGTCTTGGGAGAGTCAATTT  
GTAACTCTGATATCACTCTGCTTATTACTGCTTTCTGCTCTCTTAACTGTTAGTA

FIGURE 3, page 109 of 122

[illegible]

ACTTCACAACTTACTGATTCATATTCTAGACACTATATATAAACAATTAAATSCATGT  
CAATTAAGCTTTTCAATAGCTTTTGGAGTTGATATTATCTTTAGATTAAGAAACAAGG  
TTGCAAAAGSTTTCAATTTTCAATCAAAAAATATAAAGTATGAGAGCTSCATTTCT  
CCTTAAGTCTATCAATCAAAAAATTTTCTTTCTTATTATCTTCTATGTACTGCTGG  
[G,A]

CAGTCAAGCTTTCTAAAGAGTCAAGAAACAAGGGTCTTTCTCTGGAAGAAACCTTG  
AGTTAAATCTTTCTTAAGAAAGAGCAATAGATCTCAATTTCAATCAAGGCTCTCAAA  
TTCTCTAGAGATTTCTTTCAATTTACTCTCATGCTTTAGTCTATATCTGCAATC  
GCACTCTGAGTCAAGATTTCAATTTCTATAGCTTTATTTTCAAACTTCTCTACAGACA  
CAGTCAAGATTTCAAGCTTTCTGTTTCAAGAAACAATTTCTCTAAGATTTCTCT

172220 CATATAAAGTATAGGAATCTCAATTTCTTAAAGGTCATGCAATCTCAAAATTTCTTT  
CTTATTATCTTTCTATCTTCTTCTGAGGCAAGCTTCTTAAAGAGCTCAGAAAGAG  
AGGAGGCTTTCTTTCTCAAGAGAGAGCTTCTGAGTTTAAATCTTTCTTACAGTACCAATAG  
ATCTGATTTCTCAATCTAGCTTTCTAAATTTCTCTGAGATTTCTCTCAAGCTTTCTCT  
CATGCTTTCTCTCTATTTCTCTAAATCTCTGAGCTGAGCTCAAGCTTTCTCTTCTCT  
[C,T]

GCATTTCTCAAACTGCTCTCAAGAGAGAGCTCTCAAGCTCTCTCTTTCTGAG  
AAAATCTTTCTTTCTAAATTTCTCTCTCTGAGTCTCAAAAGCTTAAAGACTTCACTA  
CATCTATGAGATTTCTTAAATTTCTCTCTCTGAGTCTCAAGAGAGCTCTCAAGAGAGAT  
AGGAGCTTCT  
TTCT

172690 AGCAAGAGATCTCAAGAGAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT  
AGTTCT  
TTTCT  
CT  
AGCT  
[T,G]

GTAATCTCAAGCTTTCT  
GGAAAGCT  
TCTAAATCT  
AGAACT  
CT

174992 AAATAAGATTTCT  
TTCT  
ATCT  
GGAGCT  
GGCT  
[T,G]

TTCT  
GATAAATCT  
CT  
CT  
CT

176676 TTTCT  
TTTCT  
GGGCT  
TCT  
CT  
[G,A]

AGCT  
TCT  
GCT  
AGCT  
AGCT

176723 TAGATAGAGAGCT  
ATTCT  
GGCT  
GAGCT  
AGCT  
[G,A]

AGCAAAATTTCT  
TTCT  
AATCT  
CT  
TTCT

FIGURE 3, page 111 of 122







[illegible]







[illegible]

[N, B]  
T T A G A A G T T T T A G G A A A A T T A T C T T A C A T T T T T C A T C G A A G A A T T G S T A T T G T T G A T T  
A A T G S C C T T T T C C A T C A C C A T T T T C C T A T A C A A T T T T T A G A T G S T G S A G G A A C T  
A T T C T C A T T T C A A T T G A T T T G A G T S G C C T T C C T T C C C A A T T T A T T A T C C C A A T  
T T T A T C C T G T T A T A A C T A A A T G A A A A G A T T G S C A G A A A A A A A C T A A A G G S A C A C  
A A A T T C C T T A T A T A A A A G T A A T T T T A A A T T T A A A G A A T T A T A G C T T T C A T

203159 A T T G T T G A T T T A A T G C T C T T T C C A T A A A T T T T T T A T A G A A T T T T T A A C T T G S  
T T A A S A A T T A C T T T C C A T T T C A A T T G A T T T G A G T S G C C T C C C C C A A T T T A  
T T A C T T T A T T T T C A C C C T G T G T A T A A C T A A A T G A A A A A A T T G G A G G A A A A A C  
T A A A S G A C A T A A A A T T T T G T A T A T A A A A G T A A T T T T A A A G T T C C A A A G A T T T A  
T A A T T G C A A T T T A T A G T T T T T G A A T T T T T T A A A T T T T A T A C A A T T T T

[S, L]  
A T A T A C T C A A T T C A T G T T A T A C A T C A A T A T A C A T A G A T T T C A A T A T A T A G C C T A A A  
C T T A C C A T T T T T C C A T T T C T A C T S T T G A S C T A G A S C C A G G C A C A T T T C A A C A C  
C A C A C A G T A G C T T C T T A C C A A T C A C G A S T T T T A T A T T T T T G C C C T C T A C A A G S T  
A C T T T T C A T C A A A G A C S A G A A A T A A T T T C A A A T A T A T A T A G S T T A T A T A G C T T C  
T T T C C T A A A A T T T T A C C A C T T T C T G T T G C T A G T A A A T A T A C A C A T G C C C C T A A A S

203168 T T A A S T T T T T C C A T C A C C A T T T T C T T A T A C A A T T T T A G A C T G G G T G G A G A A T  
C T A C T T C T A T T T A A T T G A T T G A G T G G C C T G C C C T G C C C A A G T T T A T T A T C C C C A  
C T T T T A C C C T T T A T A A T T A G A A T G A A A A C T G G C C A G C A A A C A A G A C T A A A G G A C  
A A A A T C C T G T G A T A T T A A A A G T A A T T T T A A A C C C C A A A A A A T T A T A G S T T G C C  
A T T C C A T A T G T T T T T G A A S T T T T G C T T A A A T T T T T A A C C A A T T T T G A C C A T A T

[S, A]  
A A T A T C T T A T A G T A T C A S A T A T A G A C A T A S T A T T T A A T A T A G C C T A A A C C T C A C C A C  
C T T C C C A T T T C T A C T G C T G A G C T A G A G C C A G C A T C T T C A C A C A C C A C A C A S T A  
G C C C C T T A T A G T C A C C A G C C C C C T A T A T T T C T T C C C T C T A A A G S C T A C T T T T C C A  
C C A C A A G A C G A C C A A T A A T T T T A A A T A T A T A G S T T A C A T G C C C C T T T C C T T A A  
A A T T T T A C C A T T T C C T G T T G C C A G T A A A T A T A A A C A T G C C C C T A G A G C C C T A A T S

203704 T T T A A A A T T T T A C A C T T T C C T T T T G C C A G T A A A T A C A A A C A T G C C C C T C A G A C C C T  
C A A T G C T T T T C C C T G T G C C A C A C C T T C A A T C C T T T T C T T A G S C C A T T T C T C T G C A  
S T T A T A C T G C C A T T T T T G C A T T C C T T G A T A T A A C C T C C A C C T T T C C T A A G T C A C T T G C  
A T A T G C T A T T C C T T T A C C T G C C A T T T C T A T C A T A G A T T T C A T S T G C T G T G C C T C C  
T C T C A T T A A G S C C A C T C A A G T G A A C A C C C T T G A A A A C S A T A C C T T G A C T A G S A

[S, T]  
T T T A A A S T A C T C C C A C T A C C A C C C T A C A G T A C A A T T T C C T T T T A T T T G T A C T T T  
T A T S T T T T A T C C T T C T G A T A T A T T T A T T G C T T A T T A T C A T A G A T T G A S T T G  
T A A A T T T T G S T A C T G S T A A A T T A T C C A C C A A T T A T T T G T A G C C T A T G A S T  
A A T C T T A T A T G T A C A T T T T A A A T G S T T G T A A A A T A A A A G A A C A C C A T T T T G T G A C  
A A T G A A A A T A T A A G A T A A A A T T T A A C C C A T A A A A G T T T T T G G A A C A T A T

204111 T A G A T T G A S S T T G G C A A A C T T T C C C T A T T G S S A A A T T C A T C C C A C C C T A T T T T T  
A T A G T C A C A S C T A A T G C T A C A T G T A C A T T T T A A A T G S T T A A T A A A T A A A A A A  
G A T A T T T T T G A C A T T G T A A A T T A T G A G A T T A A A A T T T C A G T G C C C A T A A A G T T T  
T T G S A A A T A G C T A T G T C A T T T G T T A T A T A T A T A T A T T T G C T G C A T G A A  
C A C A G A S A T A A G T A G T G G A A C A C A A C T A T A T A T T A C A A A G C C A A A G A T A T A C C

[S, A]  
T T T G C C C T T T A G G A T A A A G C T T C C A A C C C T G G T G S A T A T A T A T T T C T T C A T A T T  
T C T T A C T C C T A A A T S T T T A A A A C A A A C T T T T A A A A G C A A G S A C A T A T T T T A T  
T T T A T T A T A T T A C A G T G C C T A G A A T A T A T G A A A T A G A T A A G C A T A C A T A T A A A A  
G U T T G T T A T T A T A C T T G S A A S T T A T C A A A T T T T C T T G C A A T A C A G A G C A C A C  
I A T G T A G C C A T A T T T C A A A A A T C T T C A A T A A S T A A G G A A A A A A T G C C T C A A A T

204132 C T G T A T T G C C A A A T T A T C C A C A A T A T T T T T G T A C A G C C A T G A C T A A T G S T  
A A T T A C A T T T T A A A S S T T A A A A A A T A A A A A A A A C A A T T T G T G A C A T G T G A A  
A A T A T C A A A A T T A A A T T T C A S T S T A A A A A T T T T C T G A A A T A T A C T A G S T A  
T T T G T T A T A T A T C A T A T A T C C C C C T A A T S A  
A A A A A A T A T A T A T C C A A A S T A A A A A A T A T A T C C T C C C C C T T T A G G A T A A A G

[S, T]  
T T S T A A A C C C T T S T C C A T A C T A T T T T T A T A T T C T C T A C T C C T A A A T S T T C T  
A A A A A C A A T T T T T A A A A C A A G C C C A T T T A T A T T T A T T A T A T T A C A G T C C  
T A G A T A T A T G A A C A G A S T A A C C A T A T A T A A A A G G T T S T T A T A C A T A C T G G  
C A A G T T T A C A A A T T T T C T G A A T C A G A A C A C A C A T A T G T A G C C A T A T T T A A A  
A S A T T T A A A A A T A A A A A A A A T T T C A A A T T T A A T A A A A A A C A C C T A A G

204285 A S T T T T T T G S A A C A T A G T A T C C C A T T T T T A T A T A T T A T A T A T A T T G C C C T C C A  
T G A A A A A A C A G A T A A A T A S T G G C A A C A A C A C T A T A T G A T C C A C A A A C C A A A A T A  
T C T A C C A T T T G C C T T T T A S A T A A A G C T T T T A A A C C T G S C T A A T A T S T A T T T T T  
T C A T A C T T T T A C C C C T A A A T G T T C T A A A A C C C A C T C T T T A A A A G C A A G G A C A T A







TCAGTGGGCATTGGGAGATCACGAAGGTATTTGAGTAGAGAGACAACAAAAGGCAATGGA  
AGAAGCCCTCCAGCTGCCTTGTGCAGGGAAGGGACCCACGGCTTCACTCATAGAACTA  
AAACACATGCCAAGCCCCAGGTCAATGTTAAGTGCTCATAAGGACAAGCAGCCACTGAGG  
[A,G]  
AGATGATAAATCTTGTTCATATCAGGCAAGAGGAGCCATGATGGCCCTGAGAGACATA  
CAAAGGGAATTCAAAGAAGAAAAAGATGGAATAAAGGAAATCTTCCTCAGGGAGGTAGCT  
TTTGAGATGACATGCGAAGGTGTTATTGAGTTGGGGAATGGGATGTGCTTCTCTCCTTT  
CTTATTCCCTTTACCACTCTCACTTTGGGAAGCTCCATGGAACAAAGGTAGAGACCTGG  
ATAGTACATGCTGCATCTGAGGCTGGTTTCATGGGAACCTCCATCAAGCTCTTAAGGT

Chromosome mapping:  
Chromosome #: 5